

 Price List

Low Voltage Distribution Products

With effect from December 19, 2014

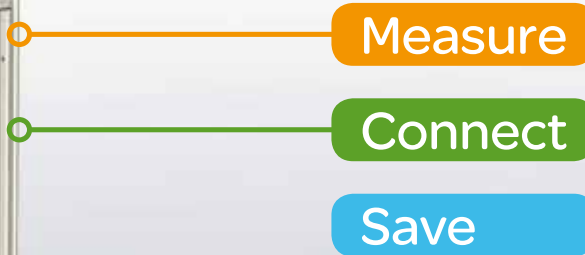


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Introducing...

Smart Solution to your Network, Asset and Energy Management needs

Simple-to-install **Smart Panels** powered by Enerlin'X communication system



Network management

- > Real time network monitoring
- > Real time load calibration
- > Fault location, isolation & system restoration - High uptime
- > Notification of unplanned events

Asset management

- > Condition based monitoring
- > Predictive maintenance
- > Use optimization - Increased asset life

Smart Panels connect you to real savings



> To discover more connect on www.schneider-electric.com/smart-panel/in



1 MEASURE

'Smart Panels' mean visible information

Grouping and measuring most of the electrical protection, command and metering components, the switchboards are now significant sources of data locally displayed and sent via communication networks.

2 CONNECT

... and ready to be linked to expertise

Smart Panels use reliable, simple to install and use displays, and, Ethernet and Modbus interfaces on the Enerlin'X communication system.

Information is safely transmitted through most efficient networks:

- Modbus SL inside switchboards, between components
- Ethernet, on cable or WiFi, inside the building and connecting switchboards to computers
- Ethernet on DSL or GPRS, for access to on-line services by Schneider Electric

Energy experts, wherever they are, are now able to provide advises based on permanently updated data of the building.

3 SAVE



On-site real time monitoring and control

On a touch screen display connected to Ethernet

- Shows essential electrical information and alarms concerning the electrical network,
- Allows control (open, close, reset...) of various equipments

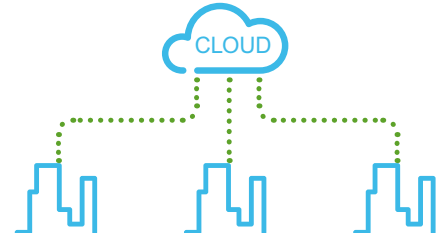
This touch screen is well appreciated for real time value checking and control, directly on the front panel of the main switchboard

On a PC display with common browser

- Shows monitoring web pages hosted into the local Ethernet interfaces
- Alarm events generate automatic email notifications
- Allows control (open, close, reset...) of various equipments

Data displayed on graphics or recorded into files are of a great interest for optimizing the use of energy in the building.

As an example, they definitely help validating the change of temperature settings, time scheduling in a Building Management System or other automated devices.



On-line Energy Management services

StruXureWare Energy Operation automates data collection via an open, scalable, and secure energy management information system.

With the help of the Schneider Electric energy management services team, data is then turned into actionable information to enable customers to understand their facilities' performance on an ongoing basis.

Energy Operation leverages companies' current investments in their existing systems, and can be used to communicate advanced results and performance to a broad audience for a shared understanding throughout the organization.

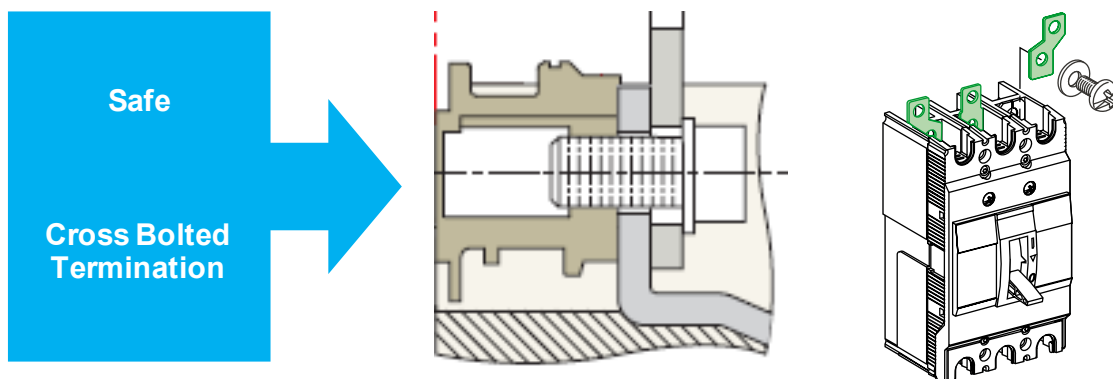
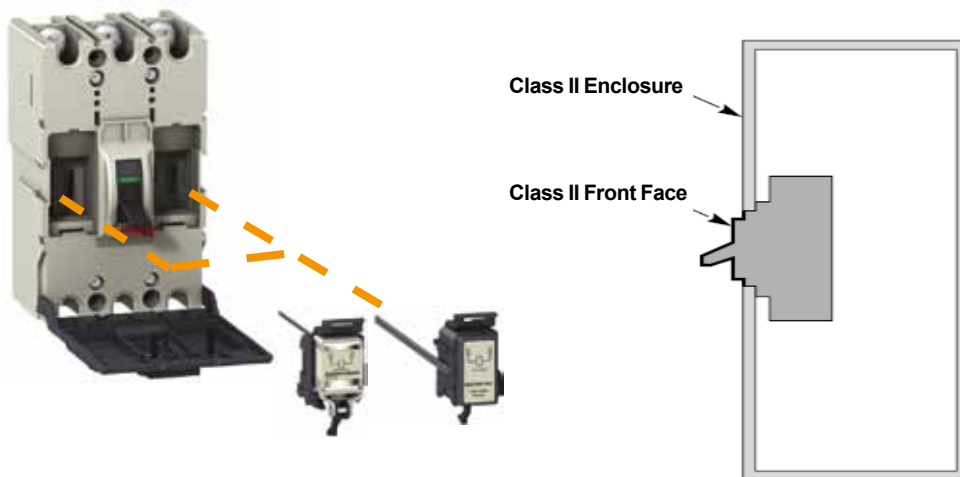
Cloud based energy computing can also help analyze performance of multi site locations and optimize energy consumption.

EasyPact Ezc

Safe, Reliable and Easy

- Schneider Electric Global MCCBs offer from 15A to 630A
- Breaking capacity up to 50kA
- 1P, 2P, 3P and 4P versions are available.
- Cross Bolted termination starts from 15A make installation more safe
- Isolation feature ensure operator safety
- Class II Front face as per IEC 61140
- Compliance to RoHS (Restriction of Hazardous Substances)

- **Safety of operator and electrical installation is utmost priority**
- **Wide range of accessories with easy and safe installation**
 - Auxiliary switch
 - Alarm switch
 - Combined auxiliary & alarm switch
 - Shunt trip coil



With Thermal Magnetic Trip Unit (TMD)



- Conforms to IEC60947-2
- Suitable for isolation
- Suitable for EasyPact Busbar system

Breaking Capacity Icu as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
30 kA	15A	EZC100H3015 <input checked="" type="checkbox"/>	4340	EZC100H4015	6020
	20A	EZC100H3020 <input checked="" type="checkbox"/>		EZC100H4020	
	25A	EZC100H3025 <input checked="" type="checkbox"/>		EZC100H4025	
	32A	EZC100H3032 <input checked="" type="checkbox"/>		EZC100H4032	
	40A	EZC100H3040 <input checked="" type="checkbox"/>		EZC100H4040	
	50A	EZC100H3050 <input checked="" type="checkbox"/>		EZC100H4050	
	63A	EZC100H3063 <input checked="" type="checkbox"/>		EZC100H4063 <input checked="" type="checkbox"/>	
	80A	EZC100H3080 <input checked="" type="checkbox"/>		EZC100H4080	
	100A	EZC100H3100 <input checked="" type="checkbox"/>		EZC100H4100 <input checked="" type="checkbox"/>	
36kA	125A	EZC250H3125	6940	EZC250H4125	9360
	160A	EZC250H3160	8670	EZC250H4160	11710
	200A	EZC250H3200	10760	EZC250H4200	14520
	250A	EZC250H3250	12750	EZC250H4250	17220

Note:

- Contact nearest sales office for 1P(up to 100A) and 2P (up to 250A) requirements
- 400A and 630A on request

Description	EZC100 Reference	Unit MRP [₹]	EZC250 Reference	Unit MRP [₹]
Auxiliary Contacts (Changeover) Multifunction				
Auxiliary Switch 1 C/O	EZAUX10 <input checked="" type="checkbox"/>	760	EZEAX <input checked="" type="checkbox"/>	920
Alarm Switch 1 C/O	EZAUX01		EZEAL <input checked="" type="checkbox"/>	
Alarm - Auxiliary Switch	EZAUX11 <input checked="" type="checkbox"/>	1090	EZEAXAL	1300
Spreaders				
Spreaders *(Set Of 3) 3P	EZASPDR3P <input checked="" type="checkbox"/>	310	EZESPDR3P <input checked="" type="checkbox"/>	460
Spreaders *(Set Of 4) 4P	EZASPDR4P <input checked="" type="checkbox"/>	410	EZESPDR4P	600
Phase Barriers				
	EZAFASB2	190	EZEFASB2	270
Rotary Handle				
Direct Rotary handle	EZAROTDS <input checked="" type="checkbox"/>	1030	EZEROTDS	1300
Extended Rotary handle	EZAROTE	1630	EZEROTE	1630
Shunt Release				
AC				
100-130 V	EZASHT100AC	1630	EZESHT100AC	1630
200-277 V	EZASHT200AC <input checked="" type="checkbox"/>		EZESHT200AC <input checked="" type="checkbox"/>	
380-480 V	EZASHT380AC		EZESHT400AC	
DC				
24 V	EZASHT024DC	1630	EZESHT024DC	1630
48 V	EZASHT048DC		EZESHT048DC	

EasyPact Range Busbar Systems



- Available for 250A, 400A & 630A main incoming current
- Available for 4,6,8 & 12 ways (3-pole) EasyPact 100A (max) outgoing MCCBs
- EZ Busbar rated 400A and 630A can accept the 2 ways or 4 ways branch extension for upto four additional 250A max outgoing circuits

[In] Rated Current	Description	Reference	Unit MRP [₹]
250 A	EZ busbar 250A 4ways	EZB250W04	8140
	EZ busbar 250A 6ways	EZB250W06	10300
	EZ busbar 250A 8ways	EZB250W08	12460
	EZ busbar 250A 10ways	EZB250W10	14630
	EZ busbar 250A 12ways	EZB250W12	16790
400 A	EZ busbar 400A 4ways	EZB400W04	10300
	EZ busbar 400A 6ways	EZB400W06	12460
	EZ busbar 400A 8ways	EZB400W08	14630
	EZ busbar 400A 10ways	EZB400W10	16790
	EZ busbar 400A 12ways	EZB400W12	18950
630 A	EZ busbar 630A 4ways	EZB630W04	12460
	EZ busbar 630A 6ways	EZB630W06	14630
	EZ busbar 630A 8ways	EZB630W08	16790
	EZ busbar 630A 10ways	EZB630W10	18950
	EZ busbar 630A 12ways	EZB630W12	21120

Branch Extension for Compact NSX/EasyPact CVS

[In] Rated Current	Description	Reference	Unit MRP [₹]
250 A	2 Way Branch Extension	EZBNS2	9170
	4 Way Branch Extension	EZBNS4	10300

EasyPact NKS AC MCCB

Moulded Case Circuit Breakers for Distribution Network

Fixed Thermal Magnetic Trip Unit (TMD)

- Conforms to IEC60947-2
- Suitable for isolation

Breaking Capacity Icu as per IEC60947-2	Rated Current	Reference	Unit MRP [₹]
10kA	15	NKS100R015AC3P	1630
	20	NKS100R020AC3P	1630
	25	NKS100R025AC3P	1630
	32	NKS100R032AC3P	1630
	40	NKS100R040AC3P	1630
	50	NKS100R050AC3P	1630
	63	NKS100R063AC3P	1630
	75	NKS100R075AC3P	1630
	100	NKS100R100AC3P	1630
	110	NKS160R110AC3P	3710
	125	NKS160R125AC3P	3710
	140	NKS160R140AC3P	3910
	150	NKS160R150AC3P	3910
	160	NKS160R160AC3P	3910
	175	NKS200R175AC3P	5150
	200	NKS200R200AC3P	5150

Description	EasyPact NKS100	Unit MRP [₹]	EasyPact NKS 125A to 200	Unit MRP [₹]
Auxiliary contacts (changeover) Multifunction				
Auxiliary Switch 1 C/O	EZAUX10	760	AX1CT1L	740
Alarm Switch 1 C/O	EZAUX01	760	AL1CT1NR	790
Alarm - Auxiliary Switch	EZAUX11	1090		
Spreaders				
Spreaders *(Set Of 3) 3P	EZASPDR3P	310	NKSP13	260
Phase Barriers				
	EZAFASB2	190	-	-
Rotary Handle				
Direct Rotary handle	EZAROTDS	1030	NRHOMT1	880
Extended Rotary handle	EZAROTE	1630	NDHOMT1	1080
Shunt Release				
AC				
100-130 V	EZASHT100AC	1630	SHT110ACT1L	670
200-277 V	EZASHT200AC	1630	SHT240ACT1L	670
380-480 V	EZASHT380AC	1630	SHT415ACT1L	670
440 V			SHT440ACT1L	640
DC				
24 V	EZASHT024DC	1630	SHT24DCT1L	670
48 V	EZASHT024DC	1630	SHT48DCT1L	670
110 V	-	-	SHT110DCT1L	670
220 V	-	-	SHT220DCT1L	670
Under Voltage Release				
AC				
UVR 200-240VAC	On Request		UVT110ACT1	1240
220 V	-	-	UVT220/240ACT1	1240
415 V	-	-	UVT415ACT1	1240

Simpact NKS DC

• Fixed Thermal Magnetic Settings

Breaking Capacity Icu as per IEC 60947-2	Rated Current	One Pole Reference	Unit MRP [₹]
5 kA 125VDC L/R = 10ms	10A	NKS100R010DC1P	1410
	15A	NKS100R015DC1P	
	20A	NKS100R020DC1P	
	30A	NKS100R030DC1P	
	40A	NKS100R040DC1P	
	50A	NKS100R050DC1P	
	60A	NKS100R060DC1P	
	75A	NKS100R075DC1P	
	100A	NKS100R100DC1P	

• Fixed Thermal Magnetic Settings

Breaking Capacity Icu as per IEC 60947-2	Rated Current	Two Pole Reference*	Unit MRP [₹]	Three Pole Reference	Unit MRP [₹]
10 kA 250VDC L/R = 10ms	10A	NKS100R010DC2P	4230	NKS100R010DC3P	4790
	15A	NKS100R015DC2P		NKS100R015DC3P	
	20A	NKS100R020DC2P		NKS100R020DC3P	
	25A	NKS100R025DC2P		NKS100R025DC3P	
	30A	NKS100R030DC2P		NKS100R030DC3P	
	40A	NKS100R040DC2P		NKS100R040DC3P	
	50A	NKS100R050DC2P		NKS100R050DC3P	
	60A	NKS100R060DC2P		NKS100R060DC3P	
	75A	NKS100R075DC2P	NKS100R075DC3P		
	100A	NKS100R100DC2P	NKS100R100DC3P		
	110A	NKS160R110DC2P	7910	NKS160R110DC3P	8670
	125A	NKS160R125DC2P		NKS160R125DC3P	
	140A	NKS160R140DC2P		NKS160R140DC3P	
	150A	NKS160R150DC2P		NKS160R150DC3P	
	160A	NKS160R160DC2P	8160	NKS160R160DC3P	9380
	175A	NKS200R175DC2P		NKS200R175DC3P	
	200A	NKS200R200DC2P	NKS200R200DC3P		

Note: *2 Pole MCCB shall be in 3P dimensions.

Spreaders are supplied as standard only with NKS200R for lower ratings consider spreader prices extra

Simpact NKS DC Accessories

Voltage	Reference	Unit MRP [₹]
Shunt Release		
AC		
100-130 V	SHT110ACT1L	670
240 V	SHT240ACT1L	
415 V	SHT415ACT1L	
440 V	SHT440ACT1L	
DC		
24 V	SHT24DCT1L	670
48 V	SHT48DCT1L	
110 V	SHT110DCT1L	
220 V	SHT220DCT1L	
Under Voltage Release		
AC		
110 V	UVT110ACT1	1240
220 V	UVT220/240ACT1 <input checked="" type="checkbox"/>	
415 V	UVT415ACT1	

Description	Reference	Unit MRP [₹]
Auxiliary contacts (changeover)		
Auxiliary Switch 1 C/O	AX1CT1L	740
Alarm Switch 1 C/O	AL1CT1NR	790
rotary handles		
Standard direct black handle	NRHOMT1	880
Standard extended rotary handle	NDHOMT1	1080
Spreaders		
Spreaders (Set of 3) 3P	NKSP13 <input checked="" type="checkbox"/>	260

Note:

- EasyPact CVS can also be used for DC network protection (from 16-630A TMD)
- For performance and other details contact our nearest Sales Office.

EasyPact CVS

Easy Choice for Quality and Value

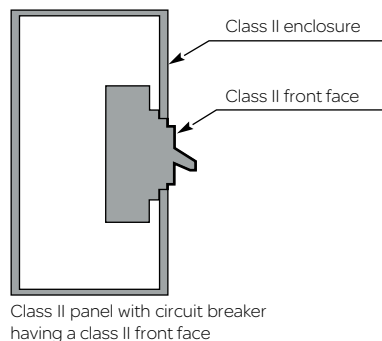
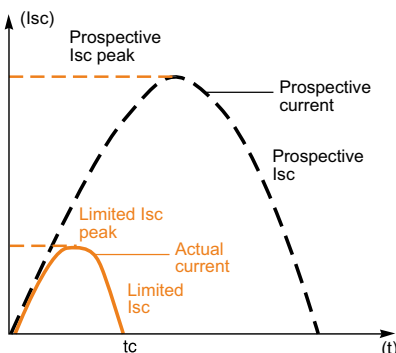


- Breaking capacity 25kA to 50kA
- 16A -800A 3P & 4P TMD & Microprocessor trip units.
- Isolation with positive break indication
- Class II Front Face
- Best in class current limiting performance (Low Let through Energy)
- Highest electrical endurance in its class
- Best in class contact resistance which help to achieve energy efficiency objectives

EasyPact CVS MCCBs most advance technology enhances the service life of Electrical installation (Cables /Bus Bars /Loads)



- **Current limiting** circuit breakers greatly reduce the negative effect of short circuit on installation, which reduce Thermal, Mechanical and Electromagnetic effect on entire electrical distribution network (Cables, Bus Bars, Loads etc.)
- **Class II Front Face** of MCCBs enhances operator & installation safety.
- **High electrical** endurance enhances continuity of services for longer time.
- **Low contact resistance** reduce energy consumptions



The limiting capacity of a circuit breaker is the aptitude to let through a current during a short circuit that is less than the prospective short-circuit current

Applications

- Electrical distribution networks
- Motor Protection starters
- Capacitor feeders Protections

With Thermal Magnetic Trip Unit (TMD)



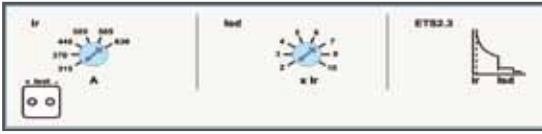
- Ics = 100% Icu as per IEC 60947-2
- Best in class fault current limitation performance (Low let through energy)
- Suitable for Isolation
- Class II Front face
- Single frame size 16-100A, 16-250A

Breaking Capacity as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP ₹	Four Pole Reference	Unit MRP ₹
EasyPact CVS 100 to 630A					
25kA*	16A	LV510930	5360	LV510950	6940
	20A	LV510931	5360	LV510951	6940
	25A	LV510932	5360	LV510952	6940
	32A	LV510933	5360	LV510953	6940
	40A	LV510934	5360	LV510954	6940
	50A	LV510935	5360	LV510955	6940
	63A	LV510936	5360	LV510956	6940
	80A	LV510937	5360	LV510957	6940
	100A	LV510938	5360	LV510958	6940
25kA	16A	LV510300 <input checked="" type="checkbox"/>	6100	LV510310	8800
	25A	LV510301 <input checked="" type="checkbox"/>	6100	LV510311 <input checked="" type="checkbox"/>	8800
	32A	LV510302 <input checked="" type="checkbox"/>	6100	LV510312 <input checked="" type="checkbox"/>	8800
	40A	LV510303 <input checked="" type="checkbox"/>	6100	LV510313 <input checked="" type="checkbox"/>	8800
	50A	LV510304 <input checked="" type="checkbox"/>	6100	LV510314	8800
	63A	LV510305 <input checked="" type="checkbox"/>	6100	LV510315 <input checked="" type="checkbox"/>	8800
	80A	LV510306 <input checked="" type="checkbox"/>	6100	LV510316 <input checked="" type="checkbox"/>	8800
	100A	LV510307 <input checked="" type="checkbox"/>	6100	LV510317 <input checked="" type="checkbox"/>	8800
	125A	LV516302 <input checked="" type="checkbox"/>	9600	LV516312 <input checked="" type="checkbox"/>	11050
160A	LV516303 <input checked="" type="checkbox"/>	13050	LV516313 <input checked="" type="checkbox"/>	15400	
200A	LV525302 <input checked="" type="checkbox"/>	17700	LV525312	21750	
250A	LV525303 <input checked="" type="checkbox"/>	20450	LV525313	24850	
36kA	16A	LV510330 <input checked="" type="checkbox"/>	9200	LV510340	11750
	25A	LV510331 <input checked="" type="checkbox"/>	9200	LV510341	11750
	32A	LV510332 <input checked="" type="checkbox"/>	9200	LV510342 <input checked="" type="checkbox"/>	11750
	40A	LV510333 <input checked="" type="checkbox"/>	9200	LV510343 <input checked="" type="checkbox"/>	11750
	50A	LV510334 <input checked="" type="checkbox"/>	9200	LV510344	11750
	63A	LV510335 <input checked="" type="checkbox"/>	9200	LV510345 <input checked="" type="checkbox"/>	11750
	80A	LV510336 <input checked="" type="checkbox"/>	9200	LV510346	11750
	100A	LV510337 <input checked="" type="checkbox"/>	9200	LV510347 <input checked="" type="checkbox"/>	11750
	125A	LV516332 <input checked="" type="checkbox"/>	10050	LV516342	12450
	160A	LV516333 <input checked="" type="checkbox"/>	13650	LV516343	16100
	200A	LV525332	19780	LV525342 <input checked="" type="checkbox"/>	23250
	250A	LV525333	21630	LV525343 <input checked="" type="checkbox"/>	25400
	320A	LV540305	25950	LV540308 <input checked="" type="checkbox"/>	32950
	400A	LV540306	25950	LV540309 <input checked="" type="checkbox"/>	32950
500A	LV563305 <input checked="" type="checkbox"/>	30950	LV563308 <input checked="" type="checkbox"/>	38600	
630A**	LV563306 <input checked="" type="checkbox"/>	30950	LV563309 <input checked="" type="checkbox"/>	39000	
50kA	16A	LV510470 <input checked="" type="checkbox"/>	11450	LV510480	14500
	25A	LV510471	11450	LV510481	14500
	32A	LV510472 <input checked="" type="checkbox"/>	11450	LV510482 <input checked="" type="checkbox"/>	14500
	40A	LV510473	11450	LV510483	14500
	50A	LV510474	11450	LV510484	14500
	63A	LV510475 <input checked="" type="checkbox"/>	11450	LV510485 <input checked="" type="checkbox"/>	14500
	80A	LV510476 <input checked="" type="checkbox"/>	11450	LV510486	14500
	100A	LV510477 <input checked="" type="checkbox"/>	11450	LV510487 <input checked="" type="checkbox"/>	14500
	125A	LV516462 <input checked="" type="checkbox"/>	16250	LV516467	18300
	160A	LV516463 <input checked="" type="checkbox"/>	17000	LV516468	19850
	200A	LV525452	21950	LV525457 <input checked="" type="checkbox"/>	27700
	250A	LV525453	23150	LV525458 <input checked="" type="checkbox"/>	28850
	320A	LV540315 <input checked="" type="checkbox"/>	27800	LV540318	34750
	400A	LV540316 <input checked="" type="checkbox"/>	27800	LV540319 <input checked="" type="checkbox"/>	34750
500A	LV563315 <input checked="" type="checkbox"/>	32900	LV563318	41500	
630A**	LV563316 <input checked="" type="checkbox"/>	32900	LV563319 <input checked="" type="checkbox"/>	43300	

*Ics=17kA

**630A @ 30°C & 600A @ 40° C for TMD630A MCCB

With Microprocessor Based Trip Unit



- Ics = 100% Icu as per IEC 60947-2
- Suitable for Isolation
- Adjustable Overload from 0.5 to 1*In
- Adjustable Short Circuit from 2 to 10*I_r
- Adjustable Neutral Protection - N, N/2, OFF for 4 Pole MCCB
- Inbuilt Thermal Memory

Breaking Capacity Ics as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
EasyPact CVS 400 to 630A					
36 kA	400A	LV540505 <input checked="" type="checkbox"/>	30950	LV540506 <input checked="" type="checkbox"/>	36350
	630A	LV563505 <input checked="" type="checkbox"/>	34350	LV563506 <input checked="" type="checkbox"/>	44050
50 kA	400A	LV540510 <input checked="" type="checkbox"/>	32350	LV540511 <input checked="" type="checkbox"/>	41300
	630A	LV563510 <input checked="" type="checkbox"/>	35750	LV563511 <input checked="" type="checkbox"/>	47700

Easypact CVS 800A

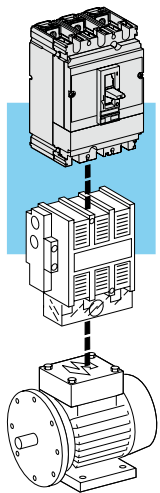


- Ics = 100% Icu as per IEC 60947-2
- TMD type Trip Unit
- Adjustable overload from 0.8 - 1 x In
- Adjustable short circuit for each phase from 3.5 - 10 x Ir

Breaking Capacity Ics as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
36kA	800A	LV580300 <input checked="" type="checkbox"/>	46700	LV580301 <input checked="" type="checkbox"/>	50400
50kA	800A	LV580302 <input checked="" type="checkbox"/>	48950	LV580303 <input checked="" type="checkbox"/>	56700

Moulded Case Circuit Breakers for Motor Protection

Breaking Capacity 50kA, Ics=Icu

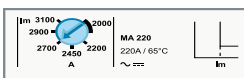


Current Rating		2.5	6.3	12.5	25	50	100	150	220	320	500
Frame 1	CVS 100										
	CVS 160										
	CVS 200										
Frame 2	CVS 400										
	CVS 630										

Short Circuit protection (Magnetic Setting)

Type 2 co-ordination chart available

CVS 100	6..14In										
CVS 160/250											
CVS 400											
CVS 630											



Frame 1	2.5 to 220A
Frame 2	320 to 500A

With Magnetic Trip Unit MA type

Breaking Capacity Ics as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]
50kA	2.5A	LV510450	7860
	6.3A	LV510451	7860
	12.5A	LV510452 <input checked="" type="checkbox"/>	7860
	25A	LV510453 <input checked="" type="checkbox"/>	10090
	50A	LV510454 <input checked="" type="checkbox"/>	10090
	100A	LV510455 <input checked="" type="checkbox"/>	10090
	150A	LV516451 <input checked="" type="checkbox"/>	13810
	220A	LV525442 <input checked="" type="checkbox"/>	17220
	320A	LV540552 <input checked="" type="checkbox"/>	29520
	500A	LV563552	34430



Indication contacts



Voltage Release



Padlocking accessory



Direct Rotary Handle



Extended Rotary Handle

Accessories from 100 - 630A

Auxiliary Contacts (Changeover) Multifunction

Description	Reference	Unit MRP [₹]
OF or SD or SDE or SDV	29450 <input checked="" type="checkbox"/>	880
OF or SD or SDE or SDV low level	29452	930
SDE adapter for trip unit TM or MA or ETS 2.3 \$\$	LV429451 <input checked="" type="checkbox"/>	670

\$\$: To be considered alongwith SDE contact for MCCB with TMD/ETS 2.3/MA Trip Unit

Voltage Releases

Description	Shunt Release Reference	Unit MRP [₹]	Undervoltage Reference	Unit MRP [₹]
AC				
24 V 50/60 Hz	LV429384 <input checked="" type="checkbox"/>	2160	LV429404	2830
48 V 50/60 Hz	LV429385		LV429405	
110-130 V 50/60 Hz	LV429386 <input checked="" type="checkbox"/>		LV429406 <input checked="" type="checkbox"/>	
220-240 V 50/60 Hz	LV429387 <input checked="" type="checkbox"/>		LV429407 <input checked="" type="checkbox"/>	
380-415 V 50 Hz	LV429388 <input checked="" type="checkbox"/>		LV429408 <input checked="" type="checkbox"/>	
525 V 50 Hz	LV429389		LV429409	
DC				
12 V	LV429382	2160	LV429402	2830
24 V	LV429390 <input checked="" type="checkbox"/>		LV429410 <input checked="" type="checkbox"/>	
30 V	LV429391		LV429411	
48 V	LV429392		LV429412	
60 V	LV429383		LV429403	
125 V	LV429393 <input checked="" type="checkbox"/>		LV429413	
250 V	LV429394 <input checked="" type="checkbox"/>		LV429414 <input checked="" type="checkbox"/>	

Rotary Handles

Description	100/160/250A Reference	Unit MRP [₹]	400/630A Reference	Unit MRP [₹]
Direct rotary handle				
Standard black handle	LV429337 <input checked="" type="checkbox"/>	1130	LV432597 <input checked="" type="checkbox"/>	1700
Extended rotary handle				
Standard extended rotary handle	LV429338 <input checked="" type="checkbox"/>	1800	LV432598 <input checked="" type="checkbox"/>	3240

Installation Accessories

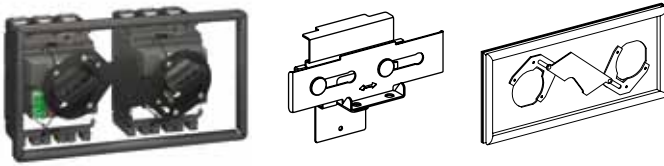
Description	100/160/250A Reference	Unit MRP [₹]	400/630A Reference	Unit MRP [₹]
Spreaders & Phase Barriers				
Spreaders (Set of 3) 3P	LV431563 <input checked="" type="checkbox"/>	670	32492 <input checked="" type="checkbox"/>	1450
Spreaders (Set of 4) 4P	LV431564 <input checked="" type="checkbox"/>	880	32493 <input checked="" type="checkbox"/>	1850
Phase Barriers (Set of 6)	*		LV432570 <input checked="" type="checkbox"/>	720
Interlocking				
For Breaker with Rotary Handle	LV429369	8390	LV432621	10560
For Breaker with Toggle	LV429354	8650	LV432614	10560
Mechanical Interlocking with Base Plate	29349**	16480	32609**	36460
Locking of Rotary Handle				
Locking Device	LV429344 <input checked="" type="checkbox"/>	520	LV432604 <input checked="" type="checkbox"/>	720
Ronis Keylock (1 Lock + 1 Key set)	41940 <input checked="" type="checkbox"/>	3660	41940 <input checked="" type="checkbox"/>	3660
Ronis Keylock (2 Locks + 1 Key set)	41950 <input checked="" type="checkbox"/>	7060	41950 <input checked="" type="checkbox"/>	7060
Profalux Keylock (1 Lock + 1 Key set)	42888	6180	42888	6180
Profalux Keylock (2 Locks + 1 Key set)	42878	7060	42878	7060

* supplied as standard with spreaders

** Mechanical Interlocking with Base Plate to be ordered with Safety trip interlock (LV429270 for 29349 and LV432520 for 32609)

NORMAL STOCK ITEMS

W.E.F. December 19, 2014



Accessories from 100 - 630A

Manual Source change-over systems

- An additional accessory interlocks two devices with rotary handles to create a source changeover system. Closing of one device is possible only if the second is open.
- This function is compatible with direct or extended rotary handles.
- Up to three padlocks can be used to lock in the OFF or ON position.

Description	Reference	Unit MRP [₹]
Mechanical interlocking for circuit breakers		
With toggles	29354	5150
With rotary handles	LV429369	8390

Accessories from 800A

Auxiliary/Alarms contacts

Description	Reference	Unit MRP [₹]
Auxiliary Switch 1 C/O	LV580075	1190
Auxiliary Switch 2 C/O	LV580076	1190
Alarm Switch 1 C/O	LV580077	1080
Alarm Switch 2 C/O	LV580078	1350
Alarm Auxiliary Contact	LV580079	1680

Voltage Releases

Description	Shunt Release Reference	Unit MRP [₹]	Undervoltage Reference	Unit MRP [₹]
AC				
110-130 V 50/60 Hz	LV580060	2280	LV580070	2860
220-240 V 50/60 Hz	LV580061		LV580071	
380-415 V 50 Hz	LV580062		LV580072	
440 V	LV580063	-	-	-
DC				
110 V	LV580066	2280	-	-
220 V	LV580067	-	-	-

Rotary Handles

Description	800A Reference	Unit MRP [₹]
Direct rotary handle		
Standard black handle	LV580080	1300
Extended rotary handle		
Standard extended rotary handle	LV580081 <input checked="" type="checkbox"/>	2000

Unique Modular Ground Fault Protection

Earth Fault Protection for EasyPact CVS/ Compact NSX MCCBs

Modular Device for EasyPact CVS/ Compact NSX Range Moulded Case Circuit Breakers

- Adjustable earth fault sensitivity selection 10 to 60%
- Adjustable time delay Inst/ 0.5 - 3 sec.
- System healthiness check through LED indication
- Individual fault indication for OL/SC, EF when used with Compact NSX & EasyPact CVS (Optional)
- Test facility to check healthiness of earth fault protection system without tripping MCCB
- Suitable for 3P3W & 3P4W electrical distribution network



Protection of electrical distribution network against fire



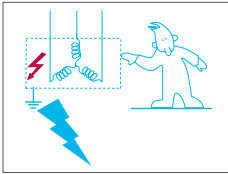
MCCB Frame	Relay Module rated current	3 Ph + 3W Reference	Unit MRP [₹]	3 Ph + 4W Reference	Unit MRP [₹]
CVS/NSX100	32, 40, 50, 63, 80, 100	GFP11CT13P <input checked="" type="checkbox"/>	5090	GFP11CT14P <input checked="" type="checkbox"/>	5570
CVS/NSX 160 / 250	125, 160, 200, 250	GFP12CT23P <input checked="" type="checkbox"/>	5780	GFP12CT24P <input checked="" type="checkbox"/>	6530
CVS/NSX 400 / 630	400, 630	GFP13CT33P <input checked="" type="checkbox"/>	8730	GFP13CT34P <input checked="" type="checkbox"/>	9530
CVS 800	800	GFP14CT43P	10770	GFP14CT44P	12050

Note: Kindly order one no. Shunt trip coil along with one Ground Fault Protection Module for CVS100 to 630. Order one auxiliary contact alongwith shunt coil for CVS800.

Earth Leakage Protection

Earth Leakage Protection is obtained by: Fitting a VIGI Module on the Circuit Breakers

VIGI Module Earth Leakage Device for EasyPact CVS/ Compact NSX Range Moulded Case Circuit Breakers



Protection of people



VIGI Module



CVS + VIGI



NSX + VIGI

- Compliance with Standards - IEC60947-2 appendix B, IEC 60255-4 and IEC60801-2 to 5 covering protection against nuisance tripping due to:
 - Transient overvoltages, lightning strikes
 - Switching of devices on the distribution system
 - Electrostatic discharges and radio frequency disturbances
- Device can be equipped with multifunction aux contact of MCCB to remotely signal tripping due to earth fault
- Self powered - "no aux supply required"
- Instantaneous tripping at 30mA in less the 40ms for human protection
- Direct acting device - no shunt/UV release required in MCCB

MCCB Frame	Type	Three Pole Reference ⁽¹⁾	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
CVS/NSX - 100/160	ME	LV429212	11020	LV429213	11900
CVS/NSX - 100/160	MH	LV429210 <input checked="" type="checkbox"/>	15910	LV429211	16430
CVS/NSX - 250	MH	LV431535	18590	LV431536	19000
CVS/NSX - 400/630	MB	LV432455	46040	LV432456	47950

ME Type	MH Type	MB Type
<ul style="list-style-type: none"> Sensitivity - 300mA (fixed) Instantaneous time delay Fixed < 40ms 	<ul style="list-style-type: none"> Sensitivity - adjustable 30mA - 300mA-1A-3A-10A Instantaneous time delay(ms) 0 - 60 ⁽²⁾ - 150 ⁽²⁾ - 310 ⁽²⁾ 	<ul style="list-style-type: none"> Sensitivity - adjustable 300mA-1A-3A-10A -30A Instantaneous time delay (ms) 0 - 60 - 150 - 310

(1) Vigi 3P modules may also be used on 3P circuit breaker used for single phase or two phase protection

(2) If the sensitivity is set to 30mA, there is no time delay, whatever the time delay setting

Insulation monitoring module for EasyPact CVS/ Compact NSX Range Moulded Case Circuit Breakers



- Settings: 100 - 200 - 500 - 1000mA
- Indication by Red LED without tripping the circuit breaker
- Option for installing auxiliary contact for remote indication/tripping

Description	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
CVS/NSX 100- 250A				
220 to 440V AC	LV429459	13750	LV429460	14780
Connection for a 4P insulation monitoring module on a 3P breaker	-	-	LV429214	5670
CVS/NSX 400- 630A				
220 to 440V AC	LV432659	21780	LV432660	24310
Connection for a 4P insulation monitoring module on a 3P breaker	-	-	LV432457	16020

Compact NSX



- Range - 16A to 630A in Two frames sizes.
- Breaking Capacity up to 200kA
- Voltage rating up to 690V
- Isolation with Positive Break Indication
- Fixed, Plug-in and Draw out type
- TMD and Microprocessor based trip unit
- Built-in energy metering (1.5% accuracy class)
- Smart Integration over Communication Network
- Total Discrimination

Breaking Capacity

Ics=100% Icu
@380/415V



Demanding more from your low voltage systems??

Introducing exceptional breaking capacity for exceptional safety and service continuity.....

High Performance Moulded Case Circuit Breakers @ 690V AC

Icu = 100kA @ 690V AC **NEW**



Choose protection that delivers...

- Best-in-class breaking capacity for:



Marine



Oil & Gas



Mining: Minerals & Metals

- Best-in-class type 2 co-ordination for motor applications @ 690V AC
- Global Certification
 - IEC 6094-2 / 4
 - Marine Classification approvals apply (Veritas, Lloyd`s Register of Shipping, Det Norske Veritas, etc)
 - Marine-ready, meets new IACS requirements (Ics rating)

Breaking performance at 690 V

NSX 100 NSX 250 NSX 400 NSX 630



Breaking performance at 415 V

NSX 100 NSX 160 NSX 250 NSX 400 NSX 630

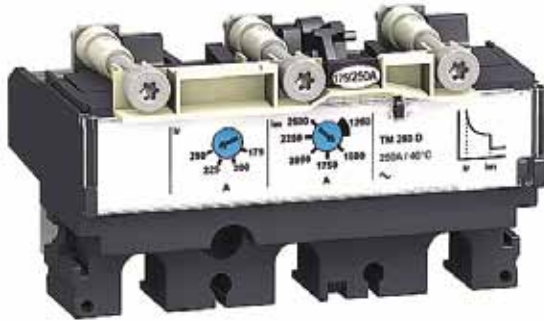


Note: For product references & prices contact nearest Sales Office

Type of Trip Units

(ASIC-Application Specific Integrated Circuit)

Thermal Magnetic Trip Unit



- Available from 16A - 250A
- Overload Setting (I_r) 0.7 - 1 x I_n
- Short Circuit Setting (I_m)
- Fixed upto 160A
- Adjustable 5 - 10 x I_r (for 200A - 250A)

Micrologic Trip Units



	Protection	Cases	Measurement	Application
	↓	↓	↓	↓
	1 I 2 LS ₀ I 5 LSI 6 LSIG	2 NSX100-250 3 NSX400-630	A Ammeter E Energy Meter	--- Distribution G Generator AB Subscriber M Motor Z 16Hz 2/3
Example				
Micrologic 1.3 M	I	400 or 630 A		Motor
Micrologic 2.2 G	LS ₀ I	100, 160 or 250 A		Generator
Micrologic 2.3	LS ₀ I	400 or 630 A		Distribution
Micrologic 2.3 M	LS ₀ I	400 or 630 A		Motor
Micrologic 5.2 A	LSI	100, 160 or 250 A	Ammerter	Distribution
Micrologic 5.3 E	LSI	400 or 630 A	Energy	Distribution
Micrologic 6.3 E-M	LSIG	400 or 630 A	Energy	Motor

- I** - Instantaneous
- S₀** - Short Time with Fixed Time Delay
- S** - Short Time with Adjustable Time Delay
- G** - Ground Fault

ULP Modules (Universal Logic Plug)

FDM121 - Front Display Module



The front display module FDM121 is a panel mounted unit dedicated to display measurements (Current, Voltage, Power, Energy, Power Factor, THD etc.), operating assistance data (Contact wear indication, Load Profile, ON/OFF/Trip counter) and Last 17 fault trip/Alarm history with date and time stamping data received from MCCB.

IFM - Interface Module



Interface module allows intelligent modular units (IMUs) in the ULP system to communicate using the Modbus protocol. These are DIN rail mounted modules.



NSX cord



ULP cables

The Compact NSX circuit breaker connects to the ULP system by means of the NSX Cord. The Compact NSX circuit breaker must be equipped with a BSCM and/or a Micrologic 5/6 Trip Unit.

ULP cables are used to interconnect ULP modules within a single IMU. They have male RJ45 connectors at both ends and are available in several lengths.



ULP modules are interconnected by simple plug and play connection using ULP cables, without prior set-up.

Introducing...

Compact NSX PV for Photovoltaic applications

- Circuit Breakers and Switch Disconnectors
- A complete DC offer for Solar Applications from 80 to 1500A.
 - 80A to 500A MCCB
 - 80A to 1500A Switch disconnector



Ensuring safe and efficient operation of your Photovoltaic installation.



With heat sink supplied as standard, MCCB rating is optimized, avoiding the need to oversize protection components and saving space in the enclosure.



Connection and insulation accessories supplied as standard with Compact NSX PV MCCB are:

- Connection plate with heat sink
- Upstream and downstream terminal shields

Note: For additional details please contact nearest Sales Office.

With Thermal Magnetic Trip Unit (TMD)



- Ics = 100% Icu as per IEC 60947-2
- Suitable for Isolation
- Adjustable thermal setting 0.7 - 1 x In
- Adjustable magnetic setting 5 – 10 x Ir **
- Transparent cover for trip unit as standard
- Two frame sizes upto 630A
- Breaking Capacity enhancement upto 150kA with a higher capacity upstream (Cascading)
- Exceptional current limiting $6 \times 10^5 \text{ A}^2\text{S}$

Breaking Capacity Icu as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
25kA	16A	LV429557	8200	LV429567	11800
	25A	LV429556 <input checked="" type="checkbox"/>	8200	LV429566	11800
	32A	LV429555 <input checked="" type="checkbox"/>	8200	LV429565	11800
	40A	LV429554 <input checked="" type="checkbox"/>	8200	LV429564	11800
	50A	LV429553	8200	LV429563	11800
	63A	LV429552 <input checked="" type="checkbox"/>	8200	LV429562 <input checked="" type="checkbox"/>	11800
	80A	LV429551 <input checked="" type="checkbox"/>	8200	LV429561	11800
	100A	LV429550 <input checked="" type="checkbox"/>	8200	LV429560 <input checked="" type="checkbox"/>	11800
	125A	LV430311 <input checked="" type="checkbox"/>	14950	LV430321 <input checked="" type="checkbox"/>	18450
	160A	LV430310 <input checked="" type="checkbox"/>	14950	LV430320 <input checked="" type="checkbox"/>	18450
	200A	LV431111	23100	LV431121 <input checked="" type="checkbox"/>	27800
	250A	LV431110 <input checked="" type="checkbox"/>	23100	LV431120 <input checked="" type="checkbox"/>	27800
	36kA	16A	LV429637 <input checked="" type="checkbox"/>	10150	LV429647
25A		LV429636 <input checked="" type="checkbox"/>	10150	LV429646	13300
32A		LV429635 <input checked="" type="checkbox"/>	10150	LV429645 <input checked="" type="checkbox"/>	13300
40A		LV429634 <input checked="" type="checkbox"/>	10150	LV429644	13300
50A		LV429633	10150	LV429643	13300
63A		LV429632 <input checked="" type="checkbox"/>	10150	LV429642 <input checked="" type="checkbox"/>	13300
80A		LV429631 <input checked="" type="checkbox"/>	10150	LV429641	13300
100A		LV429630 <input checked="" type="checkbox"/>	10150	LV429640 <input checked="" type="checkbox"/>	13300
125A		LV430631 <input checked="" type="checkbox"/>	15700	LV430641 <input checked="" type="checkbox"/>	19350
160A		LV430630 <input checked="" type="checkbox"/>	15700	LV430640 <input checked="" type="checkbox"/>	19350
200A		LV431631 <input checked="" type="checkbox"/>	24100	LV431641 <input checked="" type="checkbox"/>	29700
250A		LV431630 <input checked="" type="checkbox"/>	24100	LV431640 <input checked="" type="checkbox"/>	29700
50kA		16A	LV429847	11850	LV429857
	25A	LV429846	11850	LV429856	15000
	32A	LV429845 <input checked="" type="checkbox"/>	11850	LV429855	15000
	40A	LV429844 <input checked="" type="checkbox"/>	11850	LV429854	15000
	50A	LV429843	11850	LV429853	15000
	63A	LV429842 <input checked="" type="checkbox"/>	11850	LV429852	15000
	80A	LV429841 <input checked="" type="checkbox"/>	11850	LV429851	15000
	100A	LV429840 <input checked="" type="checkbox"/>	11850	LV429850	15000
	125A	LV430841 <input checked="" type="checkbox"/>	18250	LV430851	20500
	160A	LV430840 <input checked="" type="checkbox"/>	18250	LV430850	20500
	200A	LV431831 <input checked="" type="checkbox"/>	25100	LV431841	30650
	250A	LV431830 <input checked="" type="checkbox"/>	25100	LV431840	30650
	70kA	16A	LV429677	15900	LV429687
25A		LV429676	15900	LV429686	20000
32A		LV429675	15900	LV429685	20000
40A		LV429674	15900	LV429684	20000
50A		LV429673	15900	LV429683	20000
63A		LV429672 <input checked="" type="checkbox"/>	15900	LV429682	20000
80A		LV429671	15900	LV429681	20000
100A		LV429670 <input checked="" type="checkbox"/>	15900	LV429680	20000
125A		LV430671	29600	LV430681	31750
160A		LV430670 <input checked="" type="checkbox"/>	29600	LV430680	31750
200A		LV431671	33850	LV431681	43550
250A		LV431670 <input checked="" type="checkbox"/>	33850	LV431680	43550

Note:

- ** applicable for NSX 200A & 250A
- For higher breaking capacities (100kA and 150kA); for Generator Protection MCCB and other special application MCCB, contact our nearest Sales Office.

With Micrologic 2 (μ P -ASIC based)



- Protection type LS_0IN
- $I_{cs} = 100\%$ I_{cu} as per IEC 60947-2
- Suitable for Isolation
- Adjustable overload from $0.36 - 1 \times I_n$
- Adjustable short circuit from $1.5 - 10 \times I_r$
- Innovative front indication LED's (Ready, Overload pre-alarm & Overload)
- Two frame sizes up to 630A
- Breaking Capacity enhancement upto 150kA with a higher capacity upstream (Cascading)
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCB

Breaking Capacity I_{cu} as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
25kA	40A	LV429777 <input checked="" type="checkbox"/>	14450	LV429787	20000
	100A	LV429775 <input checked="" type="checkbox"/>	14450	LV429785 <input checked="" type="checkbox"/>	20000
	160A	LV430745 <input checked="" type="checkbox"/>	18450	LV430750 <input checked="" type="checkbox"/>	23550
	250A	LV431140 <input checked="" type="checkbox"/>	25100	LV431150 <input checked="" type="checkbox"/>	32200
36kA	40A	LV429772	15500	LV429782	20000
	100A	LV429770 <input checked="" type="checkbox"/>	15500	LV429780 <input checked="" type="checkbox"/>	20000
	160A	LV430770 <input checked="" type="checkbox"/>	19500	LV430780 <input checked="" type="checkbox"/>	26150
	250A	LV431770 <input checked="" type="checkbox"/>	27650	LV431780 <input checked="" type="checkbox"/>	35900
	400A	LV432676 <input checked="" type="checkbox"/>	35900	LV432677 <input checked="" type="checkbox"/>	41000
50kA	630A	LV432876 <input checked="" type="checkbox"/>	37950	LV432877 <input checked="" type="checkbox"/>	49200
	40A	LV429797	18450	LV429807	25250
	100A	LV429795 <input checked="" type="checkbox"/>	18450	LV429805 <input checked="" type="checkbox"/>	22550
	160A	LV430775 <input checked="" type="checkbox"/>	23050	LV430785	28700
	250A	LV431870 <input checked="" type="checkbox"/>	29100	LV431875 <input checked="" type="checkbox"/>	37950
	400A	LV432693 <input checked="" type="checkbox"/>	36900	LV432694 <input checked="" type="checkbox"/>	45600
70kA	630A	LV432893 <input checked="" type="checkbox"/>	41000	LV432894 <input checked="" type="checkbox"/>	54300
	40A	LV429792	22150	LV429802	29300
	100A	LV429790	22150	LV429800	29300
	160A	LV430790	33600	LV430800	38550
	250A	LV431790	38250	LV431800	49500
	400A	LV432695 <input checked="" type="checkbox"/>	44050	LV432696	61500
	630A	LV432895 <input checked="" type="checkbox"/>	46100	LV432896	71750

Note: For higher Breaking Capacities (100kA and 150kA); for Generator Protection MCCB and other special application MCCB, contact our nearest Sales Office.

With Micrologic 2 (μ P -ASIC based) with + shunt +GFP

- Protection type LS_0IGN
- $I_{cs} = 100\%$ I_{cu} as per IEC 60947-2
- Fault indication for GF (LED type) meant for human safety.
- Suitable for Isolation
- Adjustable overload from $0.36 - 1 \times I_n$
- Adjustable short circuit from $1.5 - 10 \times I_r$
- Adjustable earth fault sensitivity selection 10 to 60%
- Innovative front indication LED's (Ready, Overload pre-alarm & Overload)
- Two frame sizes up to 630A
- Suitable for 3P3W & 3P4W electrical distribution network
- Breaking Capacity enhancement upto 150kA with a higher capacity upstream (Cascading)
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCB

MCCB Frame	Relay Module rated current	3 Ph + 3W Reference	Unit MRP [₹]	3 Ph + 4W Reference	Unit MRP [₹]
CVS/NSX100	32, 40, 50, 63, 80, 100	GFP11CT13P <input checked="" type="checkbox"/>	5090	GFP11CT14P <input checked="" type="checkbox"/>	5570
CVS/NSX 160 / 250	125, 160, 200, 250	GFP12CT23P <input checked="" type="checkbox"/>	5780	GFP12CT24P <input checked="" type="checkbox"/>	6530
CVS/NSX 400 / 630	400, 630	GFP13CT33P <input checked="" type="checkbox"/>	8730	GFP13CT34P <input checked="" type="checkbox"/>	9530
CVS 800	800	GFP14CT43P <input checked="" type="checkbox"/>	10770	GFP14CT44P <input checked="" type="checkbox"/>	12050

Note: Kindly order NSX/CVS MCCB +GFP+. Shunt trip coil.

With Micrologic 6A (Embedded current metering and communication capable)

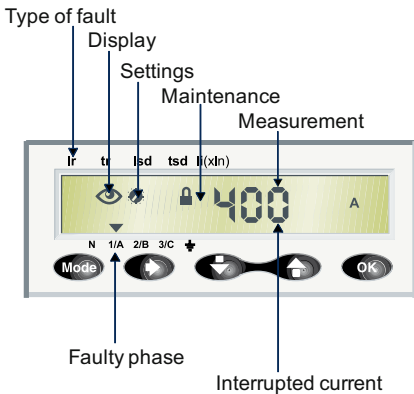


- Protection type LSIGN
- $I_{cs} = 100\% I_{cu}$ as per IEC 60947-2
- Suitable for Isolation
- Current measurements (Phase & neutral, Average, Highest of phases, Ground fault current, Maximeter / Minimeter, Current unbalance between phases)
- Adjustable overload from $I_r 0.36$ to $1 \times I_n$ and $t_r = 0.5 - 16$ s
- Adjustable short circuit from $I_{sd} 1.5 - 10 \times I_r$ and $t_{sd} I^2t_{ON}/OFF 0.1 - 0.4s$
- Adjustable earth fault $0.4 - 1 \times I_n$ (for $I_n=40A$) & $0.2 - 1 \times I_n$ (for $I_n>40A$) and $t_g I^2t_{ON}/OFF 0.1 - 0.4s$
- Instantaneous protection $I_i 1.5 \times I_n - 15 \times I_n$ (40 - 160A), $12 \times I_n$ (250 - 400A) and $11 \times I_n$ (630A)
- Innovative front indication LED's (Ready, Overload pre-alarm & Overload)
- Fault distinction on the display of trip unit (type of fault, interrupted fault current and faulty phase)
- Zone Selective Interlocking (ZSI) as standard
- Breaking Capacity enhancement upto 150kA with a higher capacity upstream (Cascading)
- Adjustable neutral protection - N, N/2, OFF and oversized neutral (standard feature) for 4 Pole MCCB.

Note:

For prices of MCCB with 6A and 6E contact our nearest Sales Office.

Micrologic 6 E (Embedded Energy metering and communication capable)



- Features over and above Micrologic 6A.
- Current Measurements (Phase & neutral, Average, Highest of Phases, Ground Fault current, Maximeter/Minimeter, Current Unbalance between Phases)
- Voltage Measurements (Phase-Phase & Phase-neutral, Average, Ph-Ph & Ph-N voltage unbalance)
- Frequency Measurements
- Power Quality Indicator (Total Harmonic Distortion for Current and Voltage)
- Power Measurements (Active, Reactive and Apparent Power, total and per phase and Power Factor and $\cos(\phi)$)
- Demand Currents and Power Measurements (Demand Values, total & per phase, Maximum Demand)
- Energy Metering (Active, Reactive and Apparent energy, total and per phase)
- Indications, Alarms and Histories (Indication of fault types, Alarms for high/low threshold, operating histories & time stamped tables)
- Maintenance Indicators (Operation, trip and alarm counters; Operating Hours Counter; Contact wear; Load profile and thermal image)
- Communication (Modbus with add on module)

Note: For higher Breaking Capacities (100kA and 150kA), contact our nearest Sales Office.

Type NA Switch Disconnecter Unit



Compact NSX 100 to 250 NA



Compact NSX 400 to 630 NA

- Suitable for Isolation with positive contact indication as defined by standard IEC 60947-3.
- Compliance to utilization categories AC22A or AC23A
- Self protected due to high magnetic-set release
- Two frame sizes upto 630A
- Available in fixed, plug in and withdrawable versions
- Common Accessories as that of Compact NSX circuit breaker

Rated Current	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
100A	LV429629	9000	LV429639	13300
160A	LV430629	18450	LV430639	24600
250A	LV431629	27650	LV431639	37950
400A	LV432756	34850	LV432757	44050
630A	LV432956	35900	LV432957	58400

With Magnetic Trip Unit MA type



- Ics = 100% Icu as per IEC 60947-2
- Suitable for Isolation
- Adjustable magnetic setting $I_m 6 - 14 \times I_n$ (2.5 - 100A) & $9 - 14 \times I_n$ (150 - 200A)
- Type - 2 Co-ordination charts upto 110 kW at 400V
- Breaking Capacity enhancement upto 150kA with a higher capacity upstream (Cascading)
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCB
- Rated at 65°C as per motor standards

Breaking Capacity Icu as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]
36kA	2.5A	LV429745	10200
	6.3A	LV429744	10200
	12.5A	LV429743	10200
	25A	LV429742	10200
	50A	LV429741	10200
	100A	LV429740 <input checked="" type="checkbox"/>	10200
	150A	LV430830	15350
50kA	220A	LV431748	25200
	2.5A	LV429755	13460
	6.3A	LV429754	13460
	12.5A	LV429753	13460
	25A	LV429752	13460
	50A	LV429751	13460
	100A	LV429750 <input checked="" type="checkbox"/>	13460
70kA	150A	LV430832	18750
	220A	LV431752	27650
	2.5A	LV429765	16320
	6.3A	LV429764	16320
	12.5A	LV429763	16320
	25A	LV429762	16320
	50A	LV429761	16320
	100A	LV429760	16320
	150A	LV430834	28400
	220A	LV431756	44050

With Micrologic 1.3M



- Ics = 100% Icu as per IEC 60947-2
- Suitable for Isolation
- Adjustable short circuit $I_{sd} = 5 - 13 \times I_n$
- Front indication LED (Ready LED)
- Type - 2 Co-ordination charts upto 250 kW at 400V
- Rated at 65°C as per motor standards

Breaking Capacity Icu as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]
36kA	320A	LV432748	32800
	500A	LV432948	39450
50kA	320A	LV432749	35900
	500A	LV432949	41200
70kA	320A	LV432750	49200
	500A	LV432950	49500

Note: For higher Breaking Capacities (100kA and 150kA), contact our nearest Sales Office

With Micrologic 2M (µP - ASIC based)



- Ics = 100% Icu as per IEC 60947-2
- Suitable for Isolation
- Adjustable overload Ir 0.45 - 1 x In
- Adjustable short circuit Isd 5 - 13 x Ir
- Trip class selection: Class 5, Class 10 & Class 20
- Phase unbalance or Phase Loss
- Type - 2 Co-ordination charts upto 315 kW at 400V
- Front indication LED's (Ready & temperature rise alarm)
- Breaking Capacity enhancement upto 150kA with a higher capacity upstream (Cascading)
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCB
- Rated at 65°C as per motor standards

Breaking Capacity Icu as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]
36kA	25A	LV429828	14790
	50A	LV429827	14790
	100A	LV429825	14790
	150A	LV430985	21930
	220A	LV431160	31010
	320A	LV432775	39780
50kA	500A	LV432975	47940
	25A	LV429833	18360
	50A	LV429832	18360
	100A	LV429830	18360
	150A	LV430988	25910
	220A	LV431165	32690
70kA	320A	LV432776	48450
	500A	LV432976	49980
	25A	LV429838	22340
	50A	LV429837	22340
	100A	LV429835	22340
	150A	LV430991	36010
	220A	LV431170	41770
	320A	LV432777	55080
	500A	LV432977	61200

Note:

- For higher Breaking Capacities (100kA and 150kA), contact our nearest Sales Office
- For arriving at the Reference of the MCCB with Micrologic 6E-M, please contact our nearest Sales Office

Micrologic 6 E-M



In addition to Embedded Energy Metering features of Micrologic 6E, the below Motor Application parameters are present in Micrologic 6E-M

- Overload protection: Ir 0.45 - 1 x In
- Short circuit protection: Isd 5 - 13 x Ir
- Ground fault protection: Ig 0.4 - 1 x In (for In=40A) & 0.2 - 1 x In (for In>40A) and tg I2tON/OFF 0.1 - 0.4s
- Phase unbalance or Phase loss
- Trip class selection: Class 5, Class10, Class20 & Class30
- Cooling fan selection: self cooled or fan cooled motors
- Iunbalance: 10 - 40% of average current and time delay 0.7s (starting) & 1 - 10s (normal operation)
- Locked Rotor: Ijam 1 - 8 x Ir or Ijam can be made OFF and tjam 1 - 30s
- Under-Load (under-current): Iund 0.3 - 0.9 x Ir or Iund can be made OFF and tund 1 - 200s
- Long Starts Ilong 1 - 8 x Ir or Ilong can be made OFF and tlong 1 - 200s
- Neutral: OFF or 0.5 x Ir or oversized neutral standard
- Front indication LED's (Ready & temperature rise alarm)
- Zone Selective Interlocking (ZSI) as standard
- Fault distinction on the display of trip unit (type of fault, interrupted fault current and faulty phase)

MCCBs for DC Network Protection

Compact NSX DC

With Thermal Magnetic Trip Unit (TMD)



- Available from 16 – 630A in 3P/4P version with breaking capacities of 36kA and 100kA @ 750V DC
- Available in 1P version with breaking capacities of 36kA, 50kA and 85kA for 250V DC / pole
- Available in 2P version with breaking capacities of 36kA, 50kA, 100kA for 250V DC / pole
- Ics = 100% Icu for complete range
- TMD type trip unit for 16 – 250A and only Magnetic type (MP1/MP2/MP3) for 400 – 630A
- L/R (time constant of the distribution system) = 15 ms
- Compact NSX DC enables parallel connections of poles, optimizing use of rated currents
- Special connection accessories available for parallel and series connection

Breaking Capacity Icu as per IEC 60947-2	Rated Current	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
36kA	100A	LV438003XTMDC100	13260	LV438008XTMDC100	18870
	160A	LV438103XTMDC160	16320	LV438108XTMDC160	22030
	250A	LV438203XTMDC250	22850	LV438208XTMDC250	27850
	400A	LV438403	48550	LV438408	59160
	630A	LV438503	61200	LV438508	72930
100kA	100A	LV438018XTMDC100	15810	LV438019XTMDC100	21420
	160A	LV438118XTMDC160	21110	LV438119XTMDC160	26520
	250A	LV438218XTMDC250	36720	LV438219XTMDC250	38760
	400A	LV438418	52020	LV438419	63240
	630A	LV438518	64260	LV438519	75480

Note:

- For 1P / 2P contact nearest Sales Office
- Above references and prices for 400A / 630A are with trip unit MP1; for other trip units contact nearest Sales Office
- For arriving at the references of MCCB with ratings lower than 100A; replace the last 3 digits with required ratings.
- For Accessories refer Compact NSX Accessories on page 25



Indication contacts



SDTAM remote indication relay module



SDx remote indication relay module



Voltage Release



Motor Mechanism

Description	Reference	Unit MRP [₹]
Auxiliary Contacts (Changeover) Multifunction		
OF or SD or SDE or SDV	29450 <input checked="" type="checkbox"/>	880
OF or SD or SDE or SDV low level	29452	930
SDE adaptor for trip unit TM or MA or Micrologic 2 \$\$	LV429451 <input checked="" type="checkbox"/>	670
SDx 2-Programmable Contacts for Micrologic		
SDx module 24/415 V AC/DC	LV429532	9840
SDTAM Contactor Tripping Module for Micrologic 2- M/6 E-M		

\$\$ To be considered alongwith SDE contact for MCCB with TMD/MA./Micrologic 2 protection.

Voltage Releases

Description	Shunt Release Reference	Unit MRP [₹]	Undervoltage Reference	Unit MRP [₹]
AC				
24 V 50/60 Hz	LV429384	2160	LV429404	2830
48 V 50/60 Hz	LV429385		LV429405	
110-130 V 50/60 Hz	LV429386 <input checked="" type="checkbox"/>		LV429406 <input checked="" type="checkbox"/>	
220-240 V 50/60 Hz	LV429387 <input checked="" type="checkbox"/>		LV429407 <input checked="" type="checkbox"/>	
380-415 V 50 Hz	LV429388 <input checked="" type="checkbox"/>		LV429408 <input checked="" type="checkbox"/>	
525 V 50 Hz	LV429389		LV429409	
DC				
12 V	LV429382	2160	LV429402	2830
24 V	LV429390 <input checked="" type="checkbox"/>		LV429410 <input checked="" type="checkbox"/>	
30 V	LV429391		LV429411	
48 V	LV429392		LV429412	
60 V	LV429383		LV429403	
125 V	LV429393		LV429413	
250 V	LV429394		LV429414 <input checked="" type="checkbox"/>	

Installation Accessories

Description	100/160/250A Reference	Unit MRP [₹]	400/630A Reference	Unit MRP [₹]
Spreaders & Phase Barrier				
Spreaders (Set of 3) 3P	LV431563 <input checked="" type="checkbox"/>	670	32492 <input checked="" type="checkbox"/>	1450
Spreaders (Set of 4) 4P	LV431564 <input checked="" type="checkbox"/>	880	32493 <input checked="" type="checkbox"/>	1850
Phase Barrier (Set of 6)	*		LV432570 <input checked="" type="checkbox"/>	720
Interlocking				
For Breaker with Rotary Handle	LV429369	8390	LV432621	10560
For Breaker with Toggle	LV429354	8650	LV432614	10560
Mechanical Interlocking with Base Plate	29349**	16480	32609**	36460
Locking of Rotary Handle				
Locking Device	LV429344 <input checked="" type="checkbox"/>	520	LV432604 <input checked="" type="checkbox"/>	720
Ronis Keylock (1 Lock + 1 Key set)	41940 <input checked="" type="checkbox"/>	3660	41940 <input checked="" type="checkbox"/>	3660
Ronis Keylock (2 Locks + 1 Key set)	41950 <input checked="" type="checkbox"/>	7060	41950 <input checked="" type="checkbox"/>	7060
Profalux Keylock (1 Lock + 1 Key set)	42888	6180	42888	6180
Profalux Keylock (2 Locks + 1 Key set)	42878	7060	42878	7060

* supplied as standard with spreader

** Mechanical Interlocking with Base Plate to be ordered with Safety trip interlock (LV429270 for 29349 and LV432520 for 32609)

NORMAL STOCK ITEMS

W.E.F. December 19, 2014



FDM121: Front Display Module



Test Battery



Power Supply Module



IFM: Modbus Interface Module



BSCM: Breaker Status and Control Module

SDTAM 24/415 V AC/DC overload fault indication

LV429424

10200

Motor Mechanism

Type	Voltage	100/160A Reference	Unit MRP [₹]	250A Reference	Unit MRP [₹]	400/630A Reference	Unit MRP [₹]
Motor Mechanism Modules with SDE adaptor ⁽¹⁾							
AC 50/60 Hz	48-60 V	LV429440	20600	LV431548	22760	LV432639	32450
	110-130 V	LV429433		LV431540		LV432640	
	220-240 V	LV429434 <input checked="" type="checkbox"/>		LV431541 <input checked="" type="checkbox"/>		LV432641 <input checked="" type="checkbox"/>	
	380-415 V	LV429435		LV431542		LV432642	
	440-480 V	LV429435		LV431542		LV432647	
DC	24-30 V	LV429436	24930	LV431543	27040	LV432643	35740
	48-60 V	LV429437		LV431544		LV432644	
	110-130 V	LV429438		LV431545		LV432645	
	250 V	LV429439		LV431546		LV432646	

(1) With every Motor Mechanism, please order 1 no. auxiliary contact additionally. For other voltages of motor mechanism please consult Schneider Electric.

Description	100/160/250A Reference	Unit MRP [₹]	400/630A Reference	Unit MRP [₹]
Locking of Motor Mechanism				
Keylock adaptor + Ronis keylock (special)	LV429449	2580	-	-
Locking Device	-	-	LV432649	820
Ronis Keylock	-	-	41940 <input checked="" type="checkbox"/>	3660
Profalux Keylock	-	-	42888	6180
Torque Limiting Screws (Set of 12)	LV429513	1910	LV432513	2270

Monitoring and Control, test tools- Compact and NSX100 - 630

Monitoring and Control (Remote Operation)

Description	Reference	Unit MRP [₹]
ULP Display Module		
Switchboard front display module FDM121	TRV00121 <input checked="" type="checkbox"/>	10300
ULP Wiring Accessories		
NSX cord L = 0.35 m	LV434200	2370
NSX cord L = 1.3 m	LV434201 <input checked="" type="checkbox"/>	2270
5 RJ45/RJ45 MALE Cord L = 1m	TRV00810	2240
10 Stacking connectors for COM interface	TRV00217	3500
ULP Communication Module		
IFM MODBUS Interface Module	TRV00210 <input checked="" type="checkbox"/>	9220
BSCM (Breaker Status and Control Module)	LV434205 <input checked="" type="checkbox"/>	7780
Power Supply Modules		
External power supply module 24 V DC-1 A OVC IV		
24-30 V DC	54440	14180
48-60 V DC	54441	
100-125 V AC	54442	
110-130 V AC	54443	
200-240 V AC	54444 <input checked="" type="checkbox"/>	
380-415 V AC	54445	
Pocket battery for Micrologic NSX100-630	LV434206	16220

Maintenance Module for advanced configuration and testing contact our nearest Sales Office.

ULP = Universal Logic Plug

NORMAL STOCK ITEMS

W.E.F. December 19, 2014



Direct Rotary Handle



Extended Rotary Handle



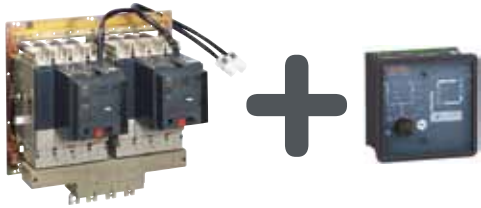
Plug in Base



Draw-Out Chassis Kit

Description	100/160/250A Reference	Unit MRP [₹]	400/630A Reference	Unit MRP [₹]
Rotary Handles				
Standard direct black handle	LV429337 <input checked="" type="checkbox"/>	1130	LV432597 <input checked="" type="checkbox"/>	1700
Standard extended rotary handle	LV429338 <input checked="" type="checkbox"/>	1800	LV432598 <input checked="" type="checkbox"/>	3240
Plug in Base (Complete Kit)				
3 Pole	LV429289 <input checked="" type="checkbox"/>	7570	LV432538 <input checked="" type="checkbox"/>	17360
4 Pole	LV429290 <input checked="" type="checkbox"/>	9790	LV432539 <input checked="" type="checkbox"/>	21630
Draw-Out Chassis Kit				
3 Pole				
Plug In base	LV429289 <input checked="" type="checkbox"/>	7570	LV432538 <input checked="" type="checkbox"/>	17360
Chassis Side Plate for base	LV429282 <input checked="" type="checkbox"/>	10610	LV432532 <input checked="" type="checkbox"/>	13440
Chassis Side Plate for breaker	LV429283 <input checked="" type="checkbox"/>	5610	LV432533 <input checked="" type="checkbox"/>	7830
4 Pole				
Plug In base	LV429290 <input checked="" type="checkbox"/>	9790	LV432539 <input checked="" type="checkbox"/>	21630
Chassis Side Plate for base	LV429282 <input checked="" type="checkbox"/>	10610	LV432532 <input checked="" type="checkbox"/>	13440
Chassis Side Plate for breaker	LV429283 <input checked="" type="checkbox"/>	5610	LV432533 <input checked="" type="checkbox"/>	7830
Plug In / Withdrawable version Accessories				
Automatic Auxilliary Connectors				
1 9-wire fixed connector (for base)	LV429273	1030	LV429273	1030
1 9-wire moving connector (for circuit breaker)	LV429274	770	LV432523 <input checked="" type="checkbox"/>	820
1 support for 2 moving connectors	LV429275	570	LV432525 <input checked="" type="checkbox"/>	570
Manual Auxilliary Connectors				
9-wire manual auxiliary connector (fixed + moving)	LV429272	3610	LV429272	3610

Note: Above auxiliary connectors to be used with Plug-in and Withdrawable MCCB when Auxiliary Contact, Shunt, UnderVoltage or Motor Mechanism is used.



BA controller (basic)

- Monitoring of “Normal” source & “Automatic” transfer
- Circuit breaker status indication on front of controller: ON, OFF & fault trip
- Voluntary transfer to “Replacement” source (e.g. energy management commands)

UA controller (advanced)

- Monitoring of “normal” source & “Automatic” transfer
- Circuit breaker status indication on front of controller: on, off & fault trip
- Voluntary transfer to “replacement” source (e.g. energy management commands)
- Delayed (adjustable) shutdown of generator set
- Load shedding & reconnection of non-priority loads
- Transfer to “Replacement” source if one of the phases of the “Normal” phase is absent
- During peak tariff period (energy management commands) forced operation on “Normal” source if “Replacement” source not operational

With NSX100F - NSX630F 36kA 3P MCCB

Breaker for Normal Supply	Breaker for Replacement Supply	3P BA Controller Reference	Unit MRP [₹]	3P UA Controller Reference	Unit MRP [₹]
NSX100F	NSX100F	LV4A3F100100B4	195570	LV4A3F100100U4	214020
NSX160F	NSX100F	LV4A3F160100B4	201820	LV4A3F160100U4	220270
NSX160F	NSX160F	LV4A3F160160B4	207610	LV4A3F160160U4	226060
NSX250F	NSX100F	LV4A3F250100B4	214840	LV4A3F250100U4	233290
NSX250F	NSX160F	LV4A3F250160B4	221090	LV4A3F250160U4	239540
NSX250F	NSX250F	LV4A3F250250B4	234060	LV4A3F250250U4	252510
NSX400F	NSX100F	LV4A3F400100B4*	250970	LV4A3F400100U4*	240260
NSX400F	NSX160F	LV4A3F400160B4*	256250	LV4A3F400160U4*	244970
NSX400F	NSX250F	LV4A3F400250B4*	239080	LV4A3F400250U4*	255530
NSX400F	NSX400F	LV4A3F400400B4	287920	LV4A3F400400U4	306370
NSX630F	NSX160F	LV4A3F630160B4*	231030	LV4A3F630160U4*	247490
NSX630F	NSX250F	LV4A3F630250B4*	241590	LV4A3F630250U4*	258040
NSX630F	NSX400F	LV4A3F630400B4	290790	LV4A3F630400U4	309240
NSX630F	NSX630F	LV4A3F630630B4	293610	LV4A3F630630U4	312060

With NSX100F - NSX630F 36kA 4P MCCB

Breaker for Normal Supply	Breaker for Replacement Supply	4P BA Controller Reference	Unit MRP [₹]	4P UA Controller Reference	Unit MRP [₹]
NSX100F	NSX100F	LV4A4F100100B4	203310	LV4A4F100100U4	221760
NSX160F	NSX100F	LV4A4F160100B4	210330	LV4A4F160100U4	228780
NSX160F	NSX160F	LV4A4F160160B4	212230	LV4A4F160160U4	230680
NSX250F	NSX100F	LV4A4F250100B4	225600	LV4A4F250100U4	244050
NSX250F	NSX160F	LV4A4F250160B4	232570	LV4A4F250160U4	251020
NSX250F	NSX250F	LV4A4F250250B4	247840	LV4A4F250250U4	266300
NSX400F	NSX100F	LV4A4F400100B4*	262860	LV4A4F400100U4*	250820
NSX400F	NSX160F	LV4A4F400160B4*	241390	LV4A4F400160U4*	257840
NSX400F	NSX250F	LV4A4F400250B4*	252870	LV4A4F400250U4*	269320
NSX400F	NSX400F	LV4A4F400400B4	300220	LV4A4F400400U4	318670
NSX630F	NSX160F	LV4A4F630160B4*	250820	LV4A4F630160U4*	267270
NSX630F	NSX250F	LV4A4F630250B4*	262300	LV4A4F630250U4*	278750
NSX630F	NSX400F	LV4A4F630400B4	310830	LV4A4F630400U4	329280
NSX630F	NSX630F	LV4A4F630630B4	321390	LV4A4F630630U4	339840

* Downstream coupling accessories are not available.

Note:

Each reference consists of:

- 2 MCCBs with Motor mechanism & Standard Trip Units.
- 4 Auxiliary contacts 2OF + 2SDE
- 1 Base Plate with IVE unit for mechanical & electrical interlocking
- 1 Downstream coupling accessory is supplied only when both the MCCB are of same Frame size
- Control Unit UA or BA

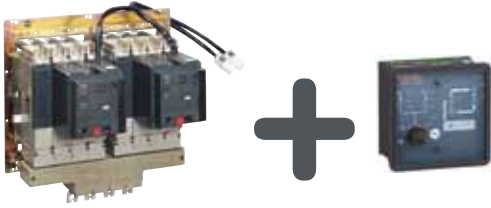
ATS upto 250A are provided with TMD type trip unit & for 400/630A with Micrologic 2 trip unit as standard.

ATS with MCCBs of other breaking capacities & other versions of trip units can also be supplied. Prices available on request.

Above given references with BA/UA controller are suitable for 415VAC control supply.

UA controller with 220/240V AC is not available

Replace suffix “4” by “2” for BA controller with 220/240V AC control supply.



BA controller (basic)

- Monitoring of “Normal” source & “Automatic” transfer
- Circuit breaker status indication on front of controller: ON, OFF & fault trip
- Voluntary transfer to “Replacement” source (e.g. energy management commands)

UA controller (advanced)

- Monitoring of “Normal” source & “Automatic” transfer.
- Circuit breaker status indication on front of controller: ON, OFF & fault trip
- Voluntary transfer to “Replacement” source (e.g. energy management commands)
- Delayed (adjustable) shutdown of generator set.
- Load shedding & reconnection of non-priority loads.
- Transfer to “Replacement” source if one of the phases of the “Normal” phase is absent
- During peak tariff period (energy management commands) forced operation on “Normal” source if “Replacement” source not operational

With NSX100N - NSX630N 50kA 3P MCCB

Breaker for Normal Supply	Breaker for Replacement Supply	3P BA Controller Reference	Unit MRP [₹]	3P UA Controller Reference	Unit MRP [₹]
NSX100N	NSX100N	LV4A3N100100B4	199160	LV4A3N100100U4	217610
NSX160N	NSX100N	LV4A3N160100B4	207150	LV4A3N160100U4	225600
NSX160N	NSX160N	LV4A3N160160B4	211150	LV4A3N160160U4	229600
NSX250N	NSX100N	LV4A3N250100B4	216890	LV4A3N250100U4	235340
NSX250N	NSX160N	LV4A3N250160B4	224880	LV4A3N250160U4	243330
NSX250N	NSX250N	LV4A3N250250B4	234670	LV4A3N250250U4	253120
NSX400N	NSX100N	LV4A3N400100B4*	228630	LV4A3N400100U4*	245080
NSX400N	NSX160N	LV4A3N400160B4*	234210	LV4A3N400160U4*	250660
NSX400N	NSX250N	LV4A3N400250B4*	242510	LV4A3N400250U4*	258970
NSX400N	NSX400N	LV4A3N400400B4	291610	LV4A3N400400U4	310060
NSX630N	NSX160N	LV4A3N630160B4*	238060	LV4A3N630160U4*	254510
NSX630N	NSX250N	LV4A3N630250B4*	246310	LV4A3N630250U4*	262760
NSX630N	NSX400N	LV4A3N630400B4	295920	LV4A3N630400U4	314370
NSX630N	NSX630N	LV4A3N630630B4	300220	LV4A3N630630U4	318670

With NSX100N - NSX630N 50kA 4P MCCB

Breaker for Normal Supply	Breaker for Replacement Supply	4P BA Controller Reference	Unit MRP [₹]	4P UA Controller Reference	Unit MRP [₹]
NSX100N	NSX100N	LV4A4N100100B4	206280	LV4A4N100100U4	224730
NSX160N	NSX100N	LV4A4N160100B4	213350	LV4A4N160100U4	231800
NSX160N	NSX160N	LV4A4N160160B4	213760	LV4A4N160160U4	232210
NSX250N	NSX100N	LV4A4N250100B4	227450	LV4A4N250100U4	245900
NSX250N	NSX160N	LV4A4N250160B4	234520	LV4A4N250160U4	252970
NSX250N	NSX250N	LV4A4N250250B4	248560	LV4A4N250250U4	267010
NSX400N	NSX100N	LV4A4N400100B4*	242720	LV4A4N400100U4*	259170
NSX400N	NSX160N	LV4A4N400160B4*	248970	LV4A4N400160U4*	265420
NSX400N	NSX250N	LV4A4N400250B4*	260550	LV4A4N400250U4*	277010
NSX400N	NSX400N	LV4A4N400400B4	311810	LV4A4N400400U4	330260
NSX630N	NSX160N	LV4A4N630160B4*	257940	LV4A4N630160U4*	274390
NSX630N	NSX250N	LV4A4N630250B4*	269520	LV4A4N630250U4*	285980
NSX630N	NSX400N	LV4A4N630400B4	321900	LV4A4N630400U4	340350
NSX630N	NSX630N	LV4A4N630630B4	332000	LV4A4N630630U4	350450

* Downstream coupling accessories are not available.

Note:

Each reference consists of:

- 2 MCCBs with Motor mechanism & Standard Trip Units.
- 4 Auxiliary contacts 2OF + 2SDE
- 1 Base Plate with IVE unit for mechanical & electrical interlocking
- 1 Downstream coupling accessory is supplied only when both the MCCB are of same Frame size.
- Control Unit UA or BA

ATS upto 250A are provided with TMD type trip unit & for 400/630A with Micrologic 2 trip unit as standard.

ATS with MCCBs of other breaking capacities & other versions of trip units can also be supplied. Prices available on request.

Above given references with BA/UA controller are suitable for 415V AC control supply.

UA controller with 220/240V AC is not available

Replace suffix “4” by “2” for BA controller with 220/240V AC control supply.

Earth Leakage Protection is obtained by:

- Installing a Micrologic 7.0.A control unit (Compact NS800 - 3200A/ Masterpact NT/NW ACB)
- Using Vigirex Relays and separate Toroids or Rectangular Sensors

Vigirex Relays



Vigirex Relays may be used to add external Earth Leakage Protection to Circuit Breakers

- Sensitivity Adjustments from 30mA to 30A and time delay settings from (0-4.5 seconds)
- Closed Toroid up to 630A (30 to 300mm in diameter), Split Toroid up to 250A (46 to 110mm in diameter) or
- Rectangular sensor up to 3200A
- 400Hz Distribution System

Note: For further details, please contact our nearest Sales Office.

Type	Control Voltage	Din rail mount Reference	Unit MRP [₹]	Front panel mount Reference	Unit MRP [₹]
RH110 with local manual fault reset	220/240VAC	56130	8870	56230	9740
Sensitivity=0.03A	380/415VAC	56140		56240	
RH99 with local manual fault reset	220/240VAC	56173	14790	56273	16010
Sensitivity = 0.03- 30A & time delay= 0-4.5s	380/415VAC	56174		56274	
RH197P with local manual or automatic fault reset	220/240VAC	-	-	56507*	17240
Sensitivity = 0.03- 30A & time delay= 0-4.5s	380/415VAC	-	-	56508*	
RH197P with local manual or automatic fault reset	220/240VAC	-	-	56512**	17410
Sensitivity = 0.03- 30A & time delay= 0-4.5s	380/415VAC	-	-	56513**	

* alarm at 50% of fault threshold

** alarm at 100% of fault threshold

Vigirex Sensors

Type	Ie(A) Rated operational Current	Inside diameter (mm)	Reference	Unit MRP [₹]
TA30	65	30	50437	6230
PA50	85	50	50438	8700
IA80	160	80	50439	10350
MA120	250	120	50440	12460
SA200	400	200	50441	19360
GA300	630	300	50442	43210

Note: For vigirex relay with monitoring and communication facility, contact nearest sales office.

Compact NS

Circuit breakers and switch-disconnectors from 630b to 3200A

- 630A to 3200A
- Breaking Capacity upto 150kA
- Category B MCCBs
- Fixed, Draw out type
- Built-in energy metering (1.5% accuracy class)
- Smart Integration over Communication Network
- Total Discrimination



2 sizes:

from 630b to 3200A



Compact NS630b to 1600



Compact NS1600b to 3200



Micrologic without Display

Micrologic A

Micrologic E

Micrologic P

LB 200kA	■	■			
L 150kA	■	■	■		
H 70kA	■	■	■	■	■
N 50kA	■	■	■	■	■
	NS630b	NS800	NS1000	NS1250	NS1600

H 85kA	■	■	■	■
N 70kA	■	■	■	■
	NS1600b	NS2300	NS2500	NS3200

With Micrologic Trip Units (Common for ACBs & MCCBs) - Unique Feature of Schneider Electric devices



- Single frame size from 630b to 1600A
- Unique common auxiliary switches from 100A to 1600A
- Breaking Capacity as high as 150kA
- Category B MCCBs

With Micrologic 2.0 Manual Fixed

- LED overload alarm indicator
- Test Facility
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCBs
- Adjustable overload (Ir) 0.4 - 1 x In
- Short circuit (Instantaneous) 1.5 - 10 x Ir

Breaking Capacity Icu as per IEC 60947-2	Rated Current [A]	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
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With Direct Rotary Handle

50kA	800	INA_3P33466D <input checked="" type="checkbox"/>	64680	INA_4P33469D	84610
	1000	INA_3P33472D	83020	INA_4P33475D	120460
	1250	INA_3P33478D	99500	INA_4P33480D	152590
70kA	800	INA_3P33467D	79050	INA_4P33470D	101040
	1000	INA_3P33473D	104600	INA_4P33476D	157280
	1250	INA_3P33479D	125450	INA_4P33481D	173250

With Extended Rotary Handle

50kA	800	INA_3P33466E <input checked="" type="checkbox"/>	66590	INA_4P33469E <input checked="" type="checkbox"/>	86520
	1000	INA_3P33472E <input checked="" type="checkbox"/>	84920	INA_4P33475E <input checked="" type="checkbox"/>	122310
	1250	INA_3P33478E <input checked="" type="checkbox"/>	101350	INA_4P33480E	154450
70kA	800	INA_3P33467E	80960	INA_4P33470E	102950
	1000	INA_3P33473E	106400	INA_4P33476E	159190
	1250	INA_3P33479E	127360	INA_4P33481E	175100

With Micrologic 6.0.A Manual Fixed

- LED overload alarm indicator
- Test Facility
- Adjustable neutral protection - N, N/2, OFF
- With ammeter display & bargraph ## (Bargraph is unique feature of Schneider MCCB)
- Zone Selective Interlocking
- Communication optional
- Individual fault indication by LED

Breaking Capacity Icu as per IEC 60947-2	Rated Current [A]	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
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With Direct Rotary Handle

50kA	800	INA_3P96466D	91620	INA_4P96469D	111550
	1000	INA_3P96472D	109950	INA_4P96475D	147390
	1250	INA_3P96478D	126430	INA_4P96480D	179530
70kA	800	INA_3P96467D	105990	INA_4P96470D	127980
	1000	INA_3P96473D	131530	INA_4P96476D	184220
	1250	INA_3P96479D	152390	INA_4P96481D	200180

With Extended Rotary Handle

50kA	800	INA_3P96466E	93420	INA_4P96469E	113450
	1000	INA_3P96472E	111810	INA_4P96475E	149250
	1250	INA_3P96478E	128290	INA_4P96480E	181380
70kA	800	INA_3P96467E	107890	INA_4P96470E	129880
	1000	INA_3P96473E	133330	INA_4P96476E	186070
	1250	INA_3P96479E	154290	INA_4P96481E	202030

Remarks: Trip Unit Micrologic 6.0.A

Parameter	Description	Setting
Ir	Adjustable Overload Current	0.4 - 1 x In
tr	Adjustable Overload time delay	0.5 - 24 sec
Isd	Adjustable Short Circuit Current	1.5 - 10 x Ir
tsd	Adjustable Short Circuit time delay	0.1 - 0.4sec & OFF (I ² t ON/OFF)
Ii	Adjustable Instantaneous Current	2 - 15 x In & OFF
Ig	Adjustable Earth Fault Current	0.2 - In (for <1250A) / 500 - 1200A (for >=1250A)
tg	Adjustable Earth Fault time delay	0.1 - 0.4sec & OFF (I ² t ON/OFF)

Display shows readings of I1, I2, I3, In & Earth Fault Current Value. Also Maximeters of Three Phase Currents are stored & displayed. LED bargraph shows the % loading on each phase

Note: For above MCCB with trip unit Micrologic 5.0, 5.0A, 5.0P, 6.0P and MCCB with higher breaking capacities, contact our nearest Sales Office
Functionality of all the above Micrologic is same as that of Masterpact NT/NW ACB.

NORMAL STOCK ITEMS

W.E.F. December 19, 2014

With Micrologic Trip Units (Common for ACBs & MCCBs) - Unique Feature of Schneider Electric devices



- Single frame size from 630b to 1600A
- Unique common auxiliary switches from 100A to 1600A
- Breaking Capacity as high as 150kA
- Category B MCCBs

With Micrologic 2.0E Manual Fixed (With Embedded Energy Metering) NEW

- LED overload alarm indicator
- Measurement: Ammeter, current demand, voltages (ph-ph, ph-N & unbalance), Power (P,Q,S), power factor, power demand, Energy (Ep, Eq, Es)
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCBs
- Communication option & M2C programmable contacts
- Adjustable overload (Ir) 0.4 - 1 x In
- Short circuit (Instantaneous) 1.5 - 10 x Ir

Breaking Capacity Icu as per IEC 60947-2	Rated Current [A]	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
With Direct Rotary Handle					
50kA	800	INA_8N3PFM2ED1	84050	INA_8N4PFM2ED1	97590
	1000	INA_10N3PFM2ED1	96050	INA_10N4PFM2ED1	140900
	1250	INA_12N3PFM2ED1	119530	INA_12N4PFM2ED1	173660
70kA	800	INA_8H3PFM2ED1	98730	INA_8H4PFM2ED1	121180
	1000	INA_10H3PFM2ED1	124680	INA_10H4PFM2ED1	178450
	1250	INA_12H3PFM2ED1	146050	INA_12H4PFM2ED1	194670
With Extended Rotary Handle					
50kA	800	INA_8N3PFM2EE1	85950	INA_8N4PFM2EE1	99340
	1000	INA_10N3PFM2EE1	104700	INA_10N4PFM2EE1	142810
	1250	INA_12N3PFM2EE1	121440	INA_12N4PFM2EE1	175560
70kA	800	INA_8H3PFM2EE1	100630	INA_8H4PFM2EE1	123030
	1000	INA_10H3PFM2EE1	126640	INA_10H4PFM2EE1	180350
	1250	INA_12H3PFM2EE1	147960	INA_12H4PFM2EE1	196630

With Micrologic 6.0E Manual Fixed (With Embedded Energy Metering) NEW

- LED overload alarm indicator
- Measurement: Ammeter, current demand, voltages (ph-ph, ph-N & unbalance), Power (P,Q,S), power factor, power demand, Energy (Ep, Eq, Es)
- Adjustable neutral protection - N, N/2, OFF
- With ammeter display & bargraph ## (Bargraph is unique feature of Schneider MCCB)
- Zone Selective Interlocking
- Communication optional
- Individual fault indication by LED

Breaking Capacity Icu as per IEC 60947-2	Rated Current [A]	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
With Direct Rotary Handle					
50kA	800	INA_8N3PFM6ED1	88990	INA_8N4PFM6ED1	113450
	1000	INA_10N3PFM6ED1	119740	INA_10N4PFM6ED1	157950
	1250	INA_12N3PFM6ED1	136530	INA_12N4PFM6ED1	190650
70kA	800	INA_8H3PFM6ED1	115720	INA_8H4PFM6ED1	138120
	1000	INA_10H3PFM6ED1	141730	INA_10H4PFM6ED1	195440
	1250	INA_12H3PFM6ED1	163000	INA_12H4PFM6ED1	211720
With Extended Rotary Handle					
50kA	800	INA_8N3PFM6EE1	94450	INA_8N4PFM6EE1	115260
	1000	INA_10N3PFM6EE1	121690	INA_10N4PFM6EE1	159800
	1250	INA_12N3PFM6EE1	138430	INA_12N4PFM6EE1	192560
70kA	800	INA_8H3PFM6EE1	109950	INA_8H4PFM6EE1	140080
	1000	INA_10H3PFM6EE1	143580	INA_10H4PFM6EE1	197350
	1250	INA_12H3PFM6EE1	164950	INA_12H4PFM6EE1	213570

Remarks: Trip Unit Micrologic 6.0.A

Parameter	Description	Setting
Ir	Adjustable Overload Current	0.4 - 1 x In
tr	Adjustable Overload time delay	0.5 - 24 sec
Isd	Adjustable Short Circuit Current	1.5 - 10 x Ir
tsd	Adjustable Short Circuit time delay	0.1 - 0.4sec & OFF (I ² t ON/OFF)
Ii	Adjustable Instantaneous Current	2 - 15 x In & OFF
Ig	Adjustable Earth Fault Current	0.2 - In (for <1250A) / 500 - 1200A (for >=1250A)
tg	Adjustable Earth Fault time delay	0.1 - 0.4sec & OFF (I ² t ON/OFF)

Display shows readings of I1, I2, I3, In & Earth Fault Current Value. Also Maximeters of Three Phase Currents are stored & displayed. LED bargraph shows the % loading on each phase

Note: For above MCCB with trip unit Micrologic 5.0, 5.0A, 5.0P, 6.0P and MCCB with higher breaking capacities, contact our nearest Sales Office
Functionality of all the above Micrologic is same as that of Masterpact NT/NW ACB.

With Micrologic Trip Units (Common for ACBs & MCCBs) - Unique Feature of Schneider Electric devices



- Single frame size from 630b to 1600A
- Unique common auxiliary switches from 100A to 1600A.
- Typical design of Shunt, Closing & U/V coil for NS>=630A MCCB & Masterpact ACB
- Breaking Capacity as high as 150kA
- Category B MCCBs

With Micrologic 2.0 Electrical Fixed

- LED overload alarm indicator
- Test Facility
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCBs
- Adjustable overload (Ir) 0.4 - 1 x In
- Short circuit (instantaneous) 1.5 - 10 x Ir

Breaking Capacity Icu as per IEC 60947-2	Rated Current [A]	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
For Control Voltage 220/240V AC					
50kA	800	INA_3P93280_20	103880	INA_4P93284_20	117990
	1000	INA_3P93290_20	122260	INA_4P93294_20	159700
	1250	INA_3P93300_20	138690	INA_4P93304_20	191790
70kA	800	INA_3P93281_20	118300	INA_4P93285_20	140340
	1000	INA_3P93291_20	143790	INA_4P93295_20	196520
	1250	INA_3P93301_20	164700	INA_4P93305_20	212440
For Control Voltage 415V AC					
50kA	800	INA_3P93280_40	103880	INA_4P93284_40	117990
	1000	INA_3P93290_40	122260	INA_4P93294_40	159700
	1250	INA_3P93300_40	138690	INA_4P93304_40	191790
70kA	800	INA_3P93281_40	118300	INA_4P93285_40	140340
	1000	INA_3P93291_40	143790	INA_4P93295_40	196520
	1250	INA_3P93301_40	164700	INA_4P93305_40	212440

With Micrologic 6.0.A Electrical Fixed

- LED overload alarm indicator
- Test Facility
- Adjustable neutral protection - N, N/2, OFF
- With ammeter display & bargraph ## (Bargraph is unique feature of Schneider MCCB)
- Zone Selective Interlocking
- Communication optional
- Individual fault indication by LED

Breaking Capacity Icu as per IEC 60947-2	Rated Current [A]	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
For Control Voltage 220/240V AC					
50kA	800	INA_3P96280_20	130810	INA_4P96284_20	150740
	1000	INA_3P96290_20	149200	INA_4P96294_20	186640
	1250	INA_3P96300_20	165620	INA_4P96304_20	218720
70kA	800	INA_3P96281_20	145230	INA_4P96285_20	167270
	1000	INA_3P96291_20	170720	INA_4P96295_20	223460
	1250	INA_3P96301_20	191630	INA_4P96305_20	239370
For Control Voltage 415V AC					
50kA	800	INA_3P96280_40	130810	INA_4P96284_40	150740
	1000	INA_3P96290_40	149200	INA_4P96294_40	186640
	1250	INA_3P96300_40	165620	INA_4P96304_40	218720
70kA	800	INA_3P96281_40	145230	INA_4P96285_40	167270
	1000	INA_3P96291_40	170720	INA_4P96295_40	223460
	1250	INA_3P96301_40	191630	INA_4P96305_40	239370

Remarks: Trip Unit Micrologic 6.0.A

Parameter	Description	Setting
Ir	Adjustable Overload Current	0.4 - 1 x In
tr	Adjustable Overload time delay	0.5 - 24 sec
Isd	Adjustable Short Circuit Current	1.5 - 10 x Ir
tsd	Adjustable Short Circuit time delay	0.1 - 0.4sec & OFF (I ² t ON/OFF)
Ii	Adjustable Instantaneous Current	2 - 15 x In & OFF
Ig	Adjustable Earth Fault Current	0.2 - In (for <1250A) / 500 - 1200A (for >=1250A)
tg	Adjustable Earth Fault time delay	0.1 - 0.4sec & OFF (I ² t ON/OFF)

Display shows Readings of I1, I2, I3, In & Earth Fault Current Value. Also Maximeters of Three Phase Currents are stored & displayed.
LED bargraph shows the % loading on each phase

Note: For above MCCB with trip unit Micrologic 5.0, 5.0A, 5.0P, 6.0P and MCCB with higher breaking capacities, contact our nearest Sales Office
Functionality of all the above Micrologic is same as that of Masterpact NT/NW ACB.

With Micrologic Trip Units (Common for ACBs & MCCBs) - Unique Feature of Schneider Electric devices



- Single frame size from 630b to 1600A
- Unique common auxiliary switches from 100A to 1600A.
- Typical design of Shunt, Closing & U/V coil for NS>=630A MCCB & Masterpact ACB
- Breaking Capacity as high as 150kA
- Category B MCCBs

With Micrologic 2.0E Electrical Fixed (With Embedded Energy Metering)

NEW

- LED overload alarm indicator
- Measurement: Ammeter, current demand, voltages (ph-ph, ph-N & unbalance), Power (P,Q,S), power factor, power demand, Energy (Ep, Eq, Es)
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCBs
- Adjustable overload (Ir) 0.4 - 1 x In
- Short circuit (instantaneous) 1.5 - 10 x Ir

Breaking Capacity Icu as per IEC 60947-2	Rated Current [A]	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
For Control Voltage 220/240V AC					
50kA	800	INA_8N3PFE2E0120	124060	INA_8N4PFE2E0120	144350
	1000	INA_10N3PFE2E0120	142710	INA_10N4PFE2E0120	180920
	1250	INA_12N3PFE2E0120	159500	INA_12N4PFE2E0120	213620
70kA	800	INA_8H3PFE2E0120	138690	INA_8H4PFE2E0120	161140
	1000	INA_10H3PFE2E0120	164700	INA_10H4PFE2E0120	218410
	1250	INA_12H3PFE2E0120	185970	INA_12H4PFE2E0120	234630
For Control Voltage 415V AC					
50kA	800	INA_8N3PFE2E0140	124060	INA_8N4PFE2E0140	144350
	1000	INA_10N3PFE2E0140	142710	INA_10N4PFE2E0140	180920
	1250	INA_12N3PFE2E0140	159500	INA_12N4PFE2E0140	213620
70kA	800	INA_8H3PFE2E0140	138690	INA_8H4PFE2E0140	161140
	1000	INA_10H3PFE2E0140	164700	INA_10H4PFE2E0140	218410
	1250	INA_12H3PFE2E0140	185970	INA_12H4PFE2E0140	234630

With Micrologic 6.0E Electrical Fixed (With Embedded Energy Metering)

NEW

- LED overload alarm indicator
- Measurement: Ammeter, current demand, voltages (ph-ph, ph-N, unbalance), Power (P,Q,S), power factor, power demand, Energy (Ep,Eq,Es)
- Adjustable neutral protection - N, N/2, OFF
- With ammeter display & bargraph ## (Bargraph is unique feature of Schneider MCCB)
- Zone Selective Interlocking
- Communication optional
- Individual fault indication by LED

Breaking Capacity Icu as per IEC 60947-2	Rated Current [A]	Three Pole Reference	Unit MRP [₹]	Four Pole Reference	Unit MRP [₹]
For Control Voltage 220/240V AC					
50kA	800	INA_8N3PFE6E0120	141010	INA_8N4PFE6E0120	161350
	1000	INA_10N3PFE6E0120	159750	INA_10N4PFE6E0120	197860
	1250	INA_12N3PFE6E0120	176490	INA_12N4PFE6E0120	230620
70kA	800	INA_8H3PFE6E0120	155740	INA_8H4PFE6E0120	178140
	1000	INA_10H3PFE6E0120	181690	INA_10H4PFE6E0120	235410
	1250	INA_12H3PFE6E0120	203010	INA_12H4PFE6E0120	251680
For Control Voltage 415V AC					
50kA	800	INA_8N3PFE6E0140	141010	INA_8N4PFE6E0140	161350
	1000	INA_10N3PFE6E0140	159750	INA_10N4PFE6E0140	197860
	1250	INA_12N3PFE6E0140	176490	INA_12N4PFE6E0140	230620
70kA	800	INA_8H3PFE6E0140	155740	INA_8H4PFE6E0140	178140
	1000	INA_10H3PFE6E0140	181690	INA_10H4PFE6E0140	235410
	1250	INA_12H3PFE6E0140	203010	INA_12H4PFE6E0140	251680

Remarks: Trip Unit Micrologic 6.0.A

Parameter	Description	Setting
Ir	Adjustable Overload Current	0.4 - 1 x In
tr	Adjustable Overload time delay	0.5 - 24 sec
Isd	Adjustable Short Circuit Current	1.5 - 10 x Ir
tsd	Adjustable Short Circuit time delay	0.1 - 0.4sec & OFF (I ² t ON/OFF)
li	Adjustable Instantaneous Current	2 - 15 x In & OFF
Ig	Adjustable Earth Fault Current	0.2 - In (for <1250A) / 500 - 1200A (for >=1250A)
tg	Adjustable Earth Fault time delay	0.1 - 0.4sec & OFF (I ² t ON/OFF)

Display shows Readings of I1, I2, I3, In & Earth Fault Current Value. Also Maximeters of Three Phase Currents are stored & displayed. LED bargraph shows the % loading on each phase

Note: For above MCCB with trip unit Micrologic 5.0, 5.0A, 5.0P, 6.0P and MCCB with higher breaking capacities, contact our nearest Sales Office
Functionality of all the above Micrologic is same as that of Masterpact NT/NW ACB.

NORMAL STOCK ITEMS

W.E.F. December 19, 2014

For Compact NS630b - 1600A

Type	Voltage	Shunt Release Reference	Unit MRP [₹]	Undervoltage Reference	Unit MRP [₹]
Voltage Releases					
AC 50/60 Hz	24 V	33659	5300	33668	5500
	48 V	33660		33669	
	110-130 V	33661 <input checked="" type="checkbox"/>		33670	
	220-240 V	33662 <input checked="" type="checkbox"/>		33671 <input checked="" type="checkbox"/>	
	380-415 V	33664		33673 <input checked="" type="checkbox"/>	
DC	24 V	33659	5300	33668	5500
	48 V	33660		33669	
	125 V	33661 <input checked="" type="checkbox"/>		33670	
	250 V	33662 <input checked="" type="checkbox"/>		33671 <input checked="" type="checkbox"/>	
Description				NS630b to 1600 Reference	Unit MRP [₹]
Spreaders (Set of 3) 3P				33622 <input checked="" type="checkbox"/>	8200
Spreaders (Set of 4) 4P				33623 <input checked="" type="checkbox"/>	10200

Compact-INS & INV Switch Disconnectors



- Interpact INS-INV Range becomes Compact-INS and Compact-INV Range.
- For Low Voltage Circuit Control and Isolation - Incomers for Distribution Boards
- Conforms to IEC 60947-3/IS 13947 - 3
 - Rated operational voltages 500V/690V
 - Rated operational current @ AC 23A
 - No deration upto 60° C
 - Positive contact indication
 - Common accessories with Compact NSX/single auxiliary contact
 - Making capacity enhanced with Compact NSX upstream

Pole Description	Rated Operational Current	Reference	Unit MRP [₹]
Interpact Range of Switch Disconnectors			
3-Pole	40 AAC-23A	28900	3960
	63 AAC-23A	28902	4870
	100 AAC-23A	28908	5730
	125 AAC-23A	28910	6140
	160 AAC-23A	28912	6950
	200 AAC-23A	31102	11770
	250 AAC-23A	31106	12430
	320 AAC-23A	31108	20250
	400 AAC-23A	31110	23040
630 AAC-23A	31114	23700	
4-Pole	40 AAC-23A	28901	4420
	63 AAC-23A	28903	5230
	100 AAC-23A	28909	6140
	125 AAC-23A	28911	6850
	160 AAC-23A	28913	7560
	200 AAC-23A	31103	13140
	250 AAC-23A	31107	13800
	320 AAC-23A	31109	23450
	400 AAC-23A	31111	24210
630 AAC-23A	31115	27400	

Interpact Changeover Systems (complete assembly)

3-Pole	100 AAC-23A	31140	33190
	160 AAC-23A	31144	36130
	200 AAC-23A	31142	39740
	250 AAC-23A	31146	40850
	320 AAC-23A	31148	67550
	400 AAC-23A	31150	72120
4-Pole	630 AAC-23A	31154	77040
	100 AAC-23A	31141	37860
	160 AAC-23A	31145	41410
	200 AAC-23A	31143	46890
	250 AAC-23A	31147	48520
	320 AAC-23A	31149	73690
	400 AAC-23A	31151	79880
630 AAC-23A	31155	87090	

Description	Reference	Unit MRP [₹]
Accessories		
Optional front extended rotary handle INS 250 - black handle (Switch Disconnector)	LV431050	3450
Optional front extended rotary handle INS 320..630 - black handle (Switch Disconnector)	31052	4890
Optional front extended rotary handle INS 40..160 - black handle (Switch Disconnector)	LV428941	1750
6 phase separators - INS100..160	28959	720
6 phase separators - INS250	29329	720
6 phase separators - INS400..630	LV432570	720

- Complete Range from 32 to 630A in TP, TP+N & FP version suitable for DIN/BS fuses.
- 4 breaks and 8 arcing points
- IP20 Fuse Protection Cover is standard
- Higher Mechanical and Electrical life.

Without Enclosure

Rated Operational Current	Poles Description	DIN Type Reference	Unit MRP [₹]	BS Type Reference	Unit MRP [₹]
32 A	3P + N	NX032TPNDI <input checked="" type="checkbox"/>	2230	NX032TPNBS <input checked="" type="checkbox"/>	2230
63 A	3P + N	NX063TPNDI <input checked="" type="checkbox"/>	2940	NX063TPNBS <input checked="" type="checkbox"/>	2940
80 A	3P + N	NX080TPNDI <input checked="" type="checkbox"/>	5620	NX080TPNBS <input checked="" type="checkbox"/>	5350
100 A	3P	NX100TPXDI	6090	NX100TPXBS	6090
	3P + N	NX100TPNDI <input checked="" type="checkbox"/>	6390	NX100TPNBS	6390
	4P	NX100FPXDI	6500	NX100FPXBS	7100
125 A	3P	NX125TPXDI <input checked="" type="checkbox"/>	7100	NX125TPXBS	7100
	3P + N	NX125TPNDI <input checked="" type="checkbox"/>	7820	NX125TPNBS <input checked="" type="checkbox"/>	7820
	4P	NX125FPXDI	8630	NX125FPXBS	8530
160 A	3P	NX160TPXDI	7820	NX160TPXBS	7100
	3P + N	NX160TPNDI <input checked="" type="checkbox"/>	8530	NX160TPNBS <input checked="" type="checkbox"/>	8120
	4P	NX160FPXDI	9640	NX160FPXBS	9140
200 A	3P	NX200TPXDI	10350	NX200TPXBS	8120
	3P + N	NX200TPNDI <input checked="" type="checkbox"/>	10960	NX200TPNBS	9740
	4P	NX200FPXDI	12380	NX200FPXBS	10150
250 A	3P	NX250TPXDI	12690	NX250TPXBS	12690
	3P + N	NX250TPNDI <input checked="" type="checkbox"/>	13190	NX250TPNBS <input checked="" type="checkbox"/>	12790
	4P	NX250FPXDI	15220	NX250FPXBS	16240
315 A	3P	NX315TPXDI	15940	NX315TPXBS	12380
	3P + N	NX315TPNDI <input checked="" type="checkbox"/>	16340	NX315TPNBS	16240
	4P	NX315FPXDI	17760	NX315FPXBS	18270
400 A	3P	NX400TPXDI	21310	NX400TPXBS	20300
	3P + N	NX400TPNDI <input checked="" type="checkbox"/>	22330	NX400TPNBS	21310
	4P	NX400FPXDI	26390	NX400FPXBS	25370
630 A	3P	NX630TPXDI	31460	NX630TPXBS	26390
	3P + N	NX630TPNDI <input checked="" type="checkbox"/>	32480	NX630TPNBS	32480
	4P	NX630FPXDI	35530	NX630FPXBS	36540

With Enclosure Ref. DIN Type

Rated Operational Current	Poles Description	Reference	Unit MRP [₹]
32 A	3P + N	NX032TPNDIE	4870
63 A	3P + N	NX063TPNDIE	5680
80 A	3P + N	NX080TPNDIE	8260
100 A	3P + N	NX100TPNDIE	9340
125 A	3P + N	NX125TPNDIE	11160
160 A	3P + N	NX160TPNDIE	11980
200 A	3P + N	NX200TPNDIE	15220
250 A	3P + N	NX250TPNDIE	18070
315 A	3P + N	NX315TPNDIE	21520
400 A	3P + N	NX400TPNDIE	25170
630 A	3P + N	NX630TPNDIE	38570

Note: For Fuses, please contact our nearest Sales Office.

Accessories/Spares

Description	Reference	Unit MRP [₹]
NX032/NX063/NX080		
Auxiliary contact for Fupact	NXAA11 <input checked="" type="checkbox"/>	460
Fuse holder for DIN NX032...NX080	NXHD1	190
Handle operating mechanism (HOM) NX032...NX080	NXR1	370
HOM shaft for NX/32/63/80	NXRS1	210
NX100/NX125/NX160		
Auxiliary contact for Fupact	NXBA11 <input checked="" type="checkbox"/>	540
Fuse holder DIN for BS type NX100...NX160	NXHB21	180
Fuse holder DIN for NX100...NX160	NXHD21	190
Handle operating mechanism NX100...NX160	NXR2 <input checked="" type="checkbox"/>	780
Shaft for HOM for NX100...NX160	NXRS2	210
NX200		
Auxiliary contact for Fupact	NXBA11 <input checked="" type="checkbox"/>	540
Fuse holder for BS type NX200	NXHB22	180
Fuse holder for DIN NX200	NXHD22	230
Handle operating mechanism NX200	NXR2 <input checked="" type="checkbox"/>	780
Shaft for HOM for NX200	NXRS2A	270
NX250/315/400		
Auxiliary contact for Fupact	NXBA11 <input checked="" type="checkbox"/>	540
Handle operating mechanism for NX250...NX400	NXR3	780
Shaft for HOM for NX250...NX400	NXRS3	270
NX250/315/400		
Auxiliary contact for Fupact	NXBA11 <input checked="" type="checkbox"/>	540
Handle operating mechanism for NX630	NXR4	830
Shaft for HOM for NX630	NXRS4	270

Type 2 Co-ordination Table With Fuse

EasyPact TVS DOL (Type 2 Co-ordination with Fuse)

- Standard: IEC 60947-4-1
- Fuses: Cooper Bussmann
- Iq (A): 50KA
- Ue: 415Vac / 50Hz
- Contactor Coil: Type M5 (220 Vac/ 50 Hz)

Motor Output		FLC		SDF (NX Range)			Contactor		Thermal Overload Relay	
KW	HP	I(A)	Type	Fuse Type	Fuse Rating (A)	Type	AC3 (A)	Type	Range (A)	
0.37	0.5	1	NX32	6NHG000B	6	LC1E09	9	LRE06	1.0 - 1.6	
0.55	0.75	1.5	NX32	6NHG000B	6	LC1E09	9	LRE06	1.0 - 1.6	
0.75	1	2	NX32	6NHG000B	6	LC1E09	9	LRE07	1.6 - 2.5	
1.5	2	3.5	NX32	16NHG000B	16	LC1E09	9	LRE08	2.5 - 4.0	
2.2	3	5	NX32	16NHG000B	16	LC1E09	9	LRE10	4.0 - 6.0	
3	4	6.8	NX32	20NHG000B	20	LC1E09	9	LRE12	5.5 - 8.0	
4	5.5	8.4	NX32	20NHG000B	20	LC1E09	9	LRE14	7.0 - 10	
5.5	7.5	11.2	NX32	25NHG000B	25	LC1E12	12	LRE16	9.0 - 13	
7.5	10	14	NX63	40NHG000B	40	LC1E18	25	LRE21	12.0 - 18	
9	12	18	NX63	50NHG000B	50	LC1E25	25	LRE22	16 - 24	
11	15	21	NX63	50NHG000B	50	LC1E32	32	LRE22	16 - 24	
15	20	28.5	NX63	63NHG000B	63	LC1E32	40	LRE32	23 - 32	
18.5	25	34	NX80	80NHG000B	80	LC1E40	40	LRE355	30 - 40	
22	30	42	NX80	80NHG000B	80	LC1E50	50	LRE357	37 - 50	
30	40	57	NX100	100NHG000B	100	LC1E65	65	LRE359	48- 65	
37	50	70	NX125	125NHG000B	125	LC1E80	80	LRE363	63- 80	
45	60	81	NX160	160NHG000B	160	LC1E95	95	LRE365	80- 104	
56	75	100	NX160	160NHG000B	160	LC1E120	115	LRE482	84- 135	
80	107	138	NX250	250NHG1B	250	LC1E160	150	LRE483	124- 198	
90	120	165	NX250	250NHG1B	250	LC1E160	160	LRE483	124- 198	
100	135	182	NX315	315NHG2B	315	LC1E200	200	LRE483	124- 198	
110	150	196	NX315	315NHG2B	315	LC1E200	200	LRE483	124- 198	
132	177	240	NX400	355NHG2B	355	LC1E250	250	LRE485	174- 279	
160	215	285	NX400	400NHG2B	400	LC1E300	300	LRE486	208- 333	

EasyPact TVS Star Delta (Type 2 Co-ordination with Fuse)

- Standard: IEC 60947-4-1
- Fuses: Cooper Bussmann
- Iq (A): 50KA
- Ue: 415Vac / 50Hz
- Contactor Coil: Type M5 (220 Vac/ 50 Hz)

Motor Output		FLC		SDF (NX Range)			Contactor			Thermal Overload Relay		
KW	HP	I Line (A)	I phase (A)	Type	Fuse Type	Fuse Rating (A)	Star Contactor	AC3- A	Main / Delta Contactor	AC3- A	Type	Range (A)
1.5	2	4	2.3	NX32	10NHC00G	10	LC1E09	9	LC1E09	9	LRE07	1.6-2.5
2.2	3	5	3	NX32	16NHC00G	16	LC1E09	9	LC1E09	9	LRE08	2.5-4
3	4	7	4	NX32	16NHC00G	16	LC1E09	9	LC1E09	9	LRE08	2.5-4
4	5.3	9	5	NX32	20NHC00G	20	LC1E09	9	LC1E09	9	LRE10	4-6
5.5	7.5	10	6	NX32	20NHC00G	20	LC1E09	9	LC1E09	9	LRE12	5.5-8
7.5	10	16	9	NX32	32NHC00G	32	LC1E09	9	LC1E09	9	LRE14	7-10
9	12	17	10	NX32	32NHC00G	32	LC1E09	9	LC1E12	9	LRE14	7-10
11	15	21	12	NX63	50NHC00G	50	LC1E12	12	LC1E12	12	LRE16	9-13
15	20	28	16	NX63	63NHC00G	63	LC1E18	18	LC1E18	18	LRE21	12-18
22	30	42	24	NX63	80NHC00G	80	LC1E25	25	LC1E25	25	LRE32	23-32
30	40	57	33	NX125	100NHG00B	100	LC1E40	40	LC1E40	40	LRE355	30-40
45	60	81	47	NX125	125NHG00B	125	LC1E40	40	LC1E50	50	LRE357	37-50
55	75	100	58	NX125	125NHG00B	125	LC1E40	40	LC1E65	65	LRE359	48-65
80	107	139	80	NX200	200NHG1B	200	LC1E80	80	LC1E80	80	LRE363	63-80
110	150	196	113	NX315	315NHG2B	315	LC1E300	300	LC1E300	300	LRE482	84~135
160	215	286	165	NX400	355NHG2B	355	LC1E300	300	LC1E300	300	LRE483	124~198

Type 2 Co-ordination Table Fuseless (DOL Starter)

- Standard : IEC 60947-4-1
- Short Circuit Protection Device type: MCCB
- Performance «Iq» (kA) : 50kA
- Operational Voltage (Ue) : 415VAC / 50Hz

Motor rating kW	FLC I(A) 415V	Ie max	Circuit Breaker Type	Rated current (A)	Setting	I _{rm} (A)	Contacteur Type	Thermal Relay Type	Thermal range I _{rt} h	I _q kA	I _r kA
0.37	1.1	1.6	CVS100-MA	2.5	6..13	22.5	LC1E09	LRE06 ⁽³⁾	1..1.6	50	1
0.55	1.5	1.6	CVS100-MA	2.5	6..14	32.5	LC1E09	LRE06 ⁽³⁾	1..1.6	50	1
0.75	1.8	2.5	CVS100-MA	2.5	6..14	32.5	LC1E09	LRE07 ⁽³⁾	1.6..2.5	50	1
1.1	2.6	4	CVS100-MA	6.3	6..14	57	LC1E32	LRE08 ⁽³⁾	2.5..4	50	1
1.5	3.4	4	CVS100-MA	6.3	6..14	57	LC1E32	LRE08 ⁽³⁾	2.5..4	50	1
2.2	4.8	6	CVS100-MA	6.3	6..14	82	LC1E32	LRE10 ⁽³⁾	4..6	50	1
3	6.5	8	CVS100-MA	12.5	6..14	113	LC1E80	LRE12 ⁽¹⁾⁽³⁾	5.5..8	50	1
4	8.2	10	CVS100-MA	12.5	6..14	138	LC1E80	LRE14 ⁽¹⁾⁽³⁾	7..10	50	1
5.5	11	12.5	CVS100-MA	12.5	6..14	163	LC1E80	LRE16 ⁽¹⁾⁽³⁾	9..13	50	1
7.5	14	18	CVS100-MA	25	6..14	250	LC1E80	LRE21 ⁽¹⁾⁽³⁾	12..18	50	3
10	19	25	CVS100-MA	25	6..14	325	LC1E80	LRE322 ⁽²⁾⁽³⁾	17..25	50	3
11	21	25	CVS100-MA	25	6..14	325	LC1E80	LRE322 ⁽²⁾⁽³⁾	17..25	50	3
15	28	32	CVS100-MA	50	6..14	450	LC1E80	LRE353 ⁽²⁾⁽³⁾	23..32	50	3
18.5	34	40	CVS100-MA	50	6..14	550	LC1E80	LRE355 ⁽²⁾⁽³⁾	30..40	50	3
22	40	50	CVS100-MA	50	6..14	650	LC1E80	LRE357 ⁽²⁾	37..50	50	3
30	55	63	CVS100-MA	100	6..14	900	LC1E120	LRE480	51..81	50	3
37	66	100	CVS100-MA	100	6..14	1100	LC1E120	LRE481	62..99	50	5
45	80	100	CVS100-MA	100	6..14	1300	LC1E120	LRE481	62..99	50	5
55	100	135	CVS160-MA	150	9..14	1500	LC1E160	LRE482	84..135	50	5
75	135	150	CVS160-MA	150	9..14	1950	LC1E160	LRE483	124..198	50	10
90	160	185	CVS250-MA	220	9..14	2420	LC1E300	LRE484	146..234	50	10
110	200	220	CVS250-MA	220	9..14	2860	LC1E300	LRE484	146..234	50	10
132	230	265	CVS400-MA	320	6..13	3500	LC1E300	LRE485	174..279	50	10
160	270	315	CVS400-MA	320	6..13	4160	LC1E300	LRE486	208..333	50	10
200	361	400	CVS630-MA	500	6..13	5700	LC1F500	LR9-F73 79	300..500	50	18
220	380	500	CVS630-MA	500	6..13	6500	LC1F500	LR9-F73 79	300..500	50	18
250	430	500	CVS630-MA	500	6..13	6500	LC1F500	LR9-F73 79	300..500	50	18

- (1) Separate mounting with LAEB1 terminal block
 (2) Separate mounting with LAEB3 terminal block
 (3) Type 1 for O/L relay

EasyPact SPS

Standard Protection System for your electrical distribution network



Schneider Electric Global specialist in the field of ACBs and MCCBs, introduces EasyPact SPS range of ACBs

- Single Frame size from 800-1600A
- ASIC Based Microprocessor trip unit with OL, SC & EF protection features, which offer fastest short circuit tripping time in its class
- 25 ms Short circuit tripping time ensure low let through energy increase the longevity of an electrical distribution network, cables and equipment
- Offer highest standards of safety for operator as well as Electrical distribution network
- Pollution category –III along with modular technology ensure high operating cycles without maintenance
- Simple to choose and easy to install



- All EasyPact SPS Air Circuit Breakers are equipped with terminal adaptors
- Conforms to IS/ IEC 60947-2 & 3
- Microprocessor based ET trip systems with thermal memory
- Fully rated neutral with inbuilt protection
- ET6L provides Overload, Short-circuit, Instantaneous & Earth-fault protections
- ET2B provides Overload & Short-circuit protections
- Short circuit breaking capacity 50kA @ 440V AC

Draw-out Type circuit breaker with Microprocessor based ET6G Trip Unit

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	SPS08F3PMW6L	133800	SPS08F3PEW6L	176400	SPS08F4PMW6L	167800	SPS08F4PEW6L	207300
1000	SPS10F3PMW6L	140200	SPS10F3PEW6L	182000	SPS10F4PMW6L	177500	SPS10F4PEW6L	217700
1250	SPS12F3PMW6L	156800	SPS12F3PEW6L	198700	SPS12F4PMW6L	200000	SPS12F4PEW6L	241400
1600	SPS16F3PMW6L	176900	SPS16F3PEW6L	218600	SPS16F4PMW6L	226400	SPS16F4PEW6L	262200

Draw-out Type circuit breaker with Microprocessor based ET2B Trip Unit

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	SPS08F3PMW2B	130700	SPS08F3PEW2B	171600	SPS08F4PMW2B	160500	SPS08F4PEW2B	200500
1000	SPS10F3PMW2B	136600	SPS10F3PEW2B	177300	SPS10F4PMW2B	170400	SPS10F4PEW2B	210100
1250	SPS12F3PMW2B	153800	SPS12F3PEW2B	194500	SPS12F4PMW2B	193400	SPS12F4PEW2B	232500
1600	SPS16F3PMW2B	173900	SPS16F3PEW2B	215000	SPS16F4PMW2B	217200	SPS16F4PEW2B	255600

Draw-out Type switch disconnector without protection

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	SPS08F3PMW0D	118300	SPS08F3PEW0D	161600	SPS08F4PMW0D	146200	SPS08F4PEW0D	180400
1000	SPS10F3PMW0D	123800	SPS10F3PEW0D	167100	SPS10F4PMW0D	156100	SPS10F4PEW0D	190600
1250	SPS12F3PMW0D	140600	SPS12F3PEW0D	183800	SPS12F4PMW0D	179400	SPS12F4PEW0D	213800
1600	SPS16F3PMW0D	160500	SPS16F3PEW0D	203700	SPS16F4PMW0D	199300	SPS16F4PEW0D	234200

Note:

All draw-out type circuit breakers will be supplied with:

- Vertical-vertical terminations.
- 1 No. Electrical fault indication Contact (SDE).
- 1 No. Auxiliary contact block (OF) with 2 C/O contacts.
- Safety shutters on Chassis & door sealing frame- Escutcheon (CDP).

- All switch disconnectors are without protection
- All electrical operated breakers are supplied with motor mechanism (MCH), closing coil (XF) and shunt release (MX).
- External Neutral CT required for highly un-balanced TP-N system has to be ordered at extra price.
- Any other accessories are optional at extra price.



- All EasyPact SPS Air Circuit Breakers are equipped with terminal adaptors
- Conforms to IS/ IEC 60947-2 & 3
- Microprocessor based ET trip systems with thermal memory
- Fully rated neutral with inbuilt protection
- ET6L provides Overload, Short-circuit, Instantaneous & Earth-fault protections
- ET2B provides Overload & Short-circuit protections
- Short circuit breaking capacity 50kA @ 440V AC

Fixed Type circuit breaker with Microprocessor based ET6G Trip Unit

Rating In (A)	3P Fixed Manual Reference	Unit LP [₹]	3P Fixed Electrical Reference	Unit LP [₹]	4P Fixed Manual Reference	Unit LP [₹]	4P Fixed Electrical Reference	Unit LP [₹]
800	SPS08F3PMF6L	103800	SPS08F3PEF6L	147000	SPS08F4PMF6L	126200	SPS08F4PEF6L	169500
1000	SPS10F3PMF6L	109300	SPS10F3PEF6L	152600	SPS10F4PMF6L	135500	SPS10F4PEF6L	178800
1250	SPS12F3PMF6L	126000	SPS12F3PEF6L	169300	SPS12F4PMF6L	157200	SPS12F4PEF6L	200500
1600	SPS16F3PMF6L	145900	SPS16F3PEF6L	189200	SPS16F4PMF6L	179700	SPS16F4PEF6L	222900

Fixed Type circuit breaker with Microprocessor based ET2B Trip Unit

Rating In (A)	3P Fixed Manual Reference	Unit LP [₹]	3P Fixed Electrical Reference	Unit LP [₹]	4P Fixed Manual Reference	Unit LP [₹]	4P Fixed Electrical Reference	Unit LP [₹]
800	SPS08F3PMF2B	93900	SPS08F3PEF2B	137100	SPS08F4PMF2B	116600	SPS08F4PEF2B	159600
1000	SPS10F3PMF2B	99400	SPS10F3PEF2B	142700	SPS10F4PMF2B	125600	SPS10F4PEF2B	168900
1250	SPS12F3PMF2B	117300	SPS12F3PEF2B	159400	SPS12F4PMF2B	147300	SPS12F4PEF2B	190600
1600	SPS16F3PMF2B	136000	SPS16F3PEF2B	179300	SPS16F4PMF2B	169800	SPS16F4PEF2B	213000

Fixed Type switch disconnector without protection

Rating In (A)	3P Fixed Manual Reference	Unit LP [₹]	3P Fixed Electrical Reference	Unit LP [₹]	4P Fixed Manual Reference	Unit LP [₹]	4P Fixed Electrical Reference	Unit LP [₹]
800	SPS08F3PMF0D	88900	SPS08F3PEF0D	132200	SPS08F4PMF0D	101500	SPS08F4PEF0D	144700
1000	SPS10F3PMF0D	94400	SPS10F3PEF0D	137700	SPS10F4PMF0D	110800	SPS10F4PEF0D	154000
1250	SPS12F3PMF0D	111200	SPS12F3PEF0D	154400	SPS12F4PMF0D	132500	SPS12F4PEF0D	175700
1600	SPS16F3PMF0D	131100	SPS16F3PEF0D	174300	SPS16F4PMF0D	154900	SPS16F4PEF0D	198200

Note:

All Fixed type circuit breakers will be supplied with:

- (i) Vertical-vertical terminations.
- (ii) 1 No. Electrical fault indication Contact (SDE).
- (iii) 1 No. Auxiliary contact block (OF) with 2 C/O contacts.

- All switch disconnectors are without protection
- All electrical operated breakers are supplied with motor mechanism (MCH), closing coil (XF) and shunt release (MX).
- External Neutral CT required for highly un-balanced TP-N system has to be ordered at extra price.
- Any other accessories are optional at extra price.

Description	Rated operational voltage	Reference	Unit MRP [₹]
Gear Motor (MCH)			
AC 50/60 Hz	100/130 V	33176	37500
	200/240 V	33177	
	277/415 V	33179	
DC	24/30 V	33185	
	48/60 V	33186	
	100/125 V	33187	
	200/250 V	33188	
Terminal Block			
For Fixed circuit breaker		47074	200
For Drawout circuit breaker		33098	
ON/OFF Indication contacts (OF) 1Part			
Changeover contact 6A	240V	47076	1100
Ready to close contact			
Changeover contact 5A	240V	47080	2600
Door interlock (VPECD)/1 part			
Right side of chassis		33172	2300

MasterPact MVS is now EasyPact MVS

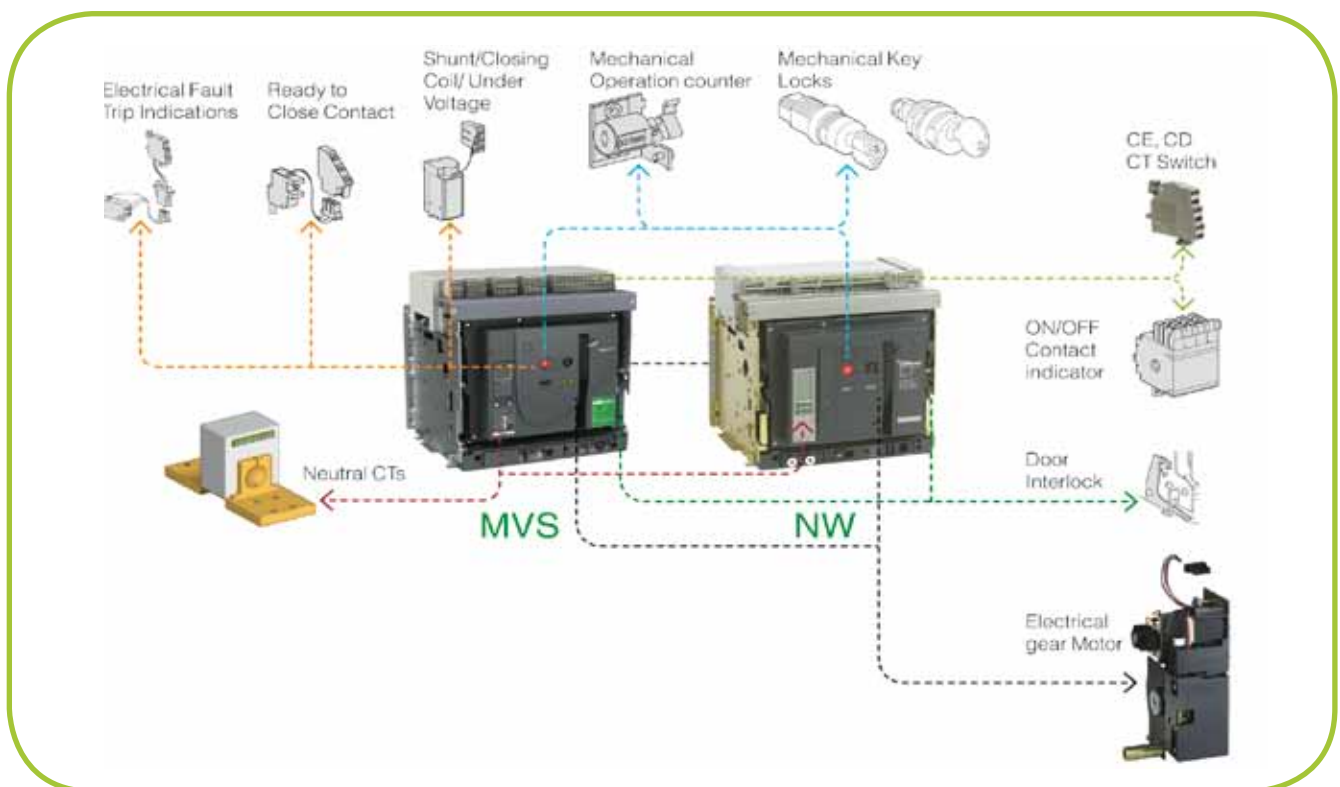


MasterPact MVS becomes Global offer as EasyPact MVS with

- Single Frame for 800A to 4000A
- Fixed, Draw out type
- Entire Range $I_{cu}=I_{cs}=I_{cw}=50kA$ for 1sec @440V.
- Suitability for applications up to 690 V
- Trip Units with built in Current and Voltage metering
- Same accessories of MasterPact NW



NW & MVS Share the same footprint of Masterpact Value System



EasyPact MVS

Selection Guide

Range	Current Rating	Type	Pole	Operating Mechanism	Installation	Protection No.	Type
EasyPact MVS (from 800 to 4000A) Icu=Ics=Icw= 50kA							
MVS	08 10 12 16 20 25 32 40	N	3 4	M N O P Q R S T	F W	2 5 6 0	L A V D

3 2 1 1 1 1 1 1 Digits used

Type
 L Basic Protection
 A Protection+ current metering
 V Protection+ voltage metering
 D Switch Disconnecter

Protection No.
 2 LI Protection
 5 LSI Protection
 6 LSI Protection
 0 No protection for switch disconnector

Type of Installation
 F Fixed
 W Withdrawable/ drawout

Operating Mechanism
 M Manually Operated ACB/SD
 N Electrical 200/240 VAC MCH + XF + MX
 O Electrical 110/130 VAC MCH + XF + MX
 P Electrical 380/415 VAC MCH + XF + MX
 Q Electrical 200/250 VDC MCH + XF + MX
 R Electrical 100/125 VDC MCH + XF + MX
 S Electrical 48/60 VDC MCH + XF + MX
 T Electrical 24/30 VDC MCH + XF + MX

Number of Poles
 3 3 Poles
 4 4 Poles

Type based on breaking capacity
 N Circuit breaker/ switch disconnector Icu=Ics=Icw (1sec)= 50kA

Current Rating
 08 800A
 10 1000A
 12 1250A
 16 1600A
 20 2000A
 25 2500A
 32 3200A
 40 4000A

Example 1: MVS32N4NW6L

MVS	32	N	4	N	W	6	L
EasyPact MVS	3200A	50kA	4 Pole	Electrical operated	Withdrawable type	LSIG Protection	Basic trip unit with LED indications

Note: In case of different coil voltages of MCH, XF, MX. Kindly contact our nearest sales office.

ET/ETA/ETV Trip System NEW

A step towards intelligent Electrical Distribution Network



		ET Trip Unit	ETA Trip Unit	ETV Trip Unit
Features	Current Metering		●	●
	Voltage Metering			●
	ZSI	●	●	●
	% Loading Bar Graph for each phase	●	●	●
	Thermal Memory	●	●	●
	Last 10 Trip History			●
Protection	2 (L, I)	2L	2A	2V
	6 (L,S,I,G)	6G	6A	6V



Additional information provided by ETV range of trip units

- Demand Current
- Demand current maximeters
- Phase to phase voltages
- Phase to neutral voltages
- Average voltage
- Voltage unbalance
- Trip History



- Conforms to IS/ IEC 60947-2 & 3
- Microprocessor based ET trip systems with thermal memory
- No derating up to 50°C
- Zone Selective Interlocking
- Fully rated neutral with inbuilt protection
- Pre trip alarm & individual fault indicating LEDs
- ET6L provides Overload, Short-circuit, Instantaneous & Earth-fault protections
- ET2L provides Overload & Short-circuit protections
- Icu=Ics=Icw(1sec) = 50kA @ 440V AC

Draw-out Type circuit breaker with Microprocessor based ET6G Trip Unit (without display)

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	MVS08N3MW6L	167150	MVS08N3NW6L	213000	MVS08N4MW6L	213050	MVS08N4NW6L	258900
1000	MVS10N3MW6L	182600	MVS10N3NW6L	228500	MVS10N4MW6L	230800	MVS10N4NW6L	276700
1250	MVS12N3MW6L	205300	MVS12N3NW6L	251200	MVS12N4MW6L	248200	MVS12N4NW6L	294100
1600	MVS16N3MW6L	224400	MVS16N3NW6L	270300	MVS16N4MW6L	290350	MVS16N4NW6L	336200
2000	MVS20N3MW6L	273750	MVS20N3NW6L	319600	MVS20N4MW6L	332950	MVS20N4NW6L	378800
2500	MVS25N3MW6L	332000	MVS25N3NW6L	377900	MVS25N4MW6L	407300	MVS25N4NW6L	453200
3200	MVS32N3MW6L	422400	MVS32N3NW6L	468300	MVS32N4MW6L	523000	MVS32N4NW6L	568900
4000	MVS40N3MW6L	511650	MVS40N3NW6L	557600	MVS40N4MW6L	649200	MVS40N4NW6L	695100

Draw-out Type circuit breaker with Microprocessor based ET2L Trip Unit (without display)

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	MVS08N3MW2L	150900	MVS08N3NW2L	196800	MVS08N4MW2L	196800	MVS08N4NW2L	242700
1000	MVS10N3MW2L	166300	MVS10N3NW2L	212200	MVS10N4MW2L	214500	MVS10N4NW2L	260400
1250	MVS12N3MW2L	189000	MVS12N3NW2L	234900	MVS12N4MW2L	231900	MVS12N4NW2L	277800
1600	MVS16N3MW2L	208100	MVS16N3NW2L	254000	MVS16N4MW2L	274100	MVS16N4NW2L	319900
2000	MVS20N3MW2L	257500	MVS20N3NW2L	303300	MVS20N4MW2L	316700	MVS20N4NW2L	362600
2500	MVS25N3MW2L	315700	MVS25N3NW2L	361600	MVS25N4MW2L	391000	MVS25N4NW2L	436900
3200	MVS32N3MW2L	406100	MVS32N3NW2L	452000	MVS32N4MW2L	506700	MVS32N4NW2L	552600
4000	MVS40N3MW2L	495400	MVS40N3NW2L	541300	MVS40N4MW2L	632900	MVS40N4NW2L	678800

Draw-out type switch disconnector without protection

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	MVS08N3MW0D	142600	MVS08N3NW0D	184500	MVS08N4MW0D	187550	MVS08N4NW0D	229400
1000	MVS10N3MW0D	150850	MVS10N3NW0D	191200	MVS10N4MW0D	200500	MVS10N4NW0D	242300
1250	MVS12N3MW0D	172150	MVS12N3NW0D	212100	MVS12N4MW0D	226700	MVS12N4NW0D	271900
1600	MVS16N3MW0D	198000	MVS16N3NW0D	239900	MVS16N4MW0D	255950	MVS16N4NW0D	297800
2000	MVS20N3MW0D	243800	MVS20N3NW0D	285600	MVS20N4MW0D	311450	MVS20N4NW0D	355000
2500	MVS25N3MW0D	310500	MVS25N3NW0D	356400	MVS25N4MW0D	385750	MVS25N4NW0D	431700
3200	MVS32N3MW0D	400900	MVS32N3NW0D	443000	MVS32N4MW0D	498450	MVS32N4NW0D	540300
4000	MVS40N3MW0D	490150	MVS40N3NW0D	536000	MVS40N4MW0D	627700	MVS40N4NW0D	673600

Note:

All draw-out type circuit breakers will be supplied with:

- Top and Bottom horizontal terminations.
- 1 No. Electrical fault indication Contact (SDE).
- 1 No. Auxiliary contact block (OF) with 4 C/O contacts.
- Safety shutters on Chassis & door sealing frame- Escutcheon (CDP).

- All electrical operated breakers are supplied with motor mechanism (MCH), closing coil (XF) & shunt release (MX). (Voltage ratings to be specified by customer & duly filled in ACB Order form)
- External Neutral CT required for highly un-balanced TP-N system has to be ordered at extra price.
- Any other accessories are optional at extra price.

Prices:

- The above are list prices & are inclusive of Excise duty.
- CST/ VAT/ Entry tax will be charged extra as applicable.
- For prices of fixed type circuit breakers and switch-disconnector, kindly contact our nearest Sales Office.



- Conforms to IS/ IEC 60947-2 & 3
- Microprocessor based ET trip systems with thermal memory
- No derating up to 50°C
- Zone Selective Interlocking
- Fully rated neutral with inbuilt protection
- Pre trip alarm & individual fault indicating LEDs
- ET6A provides Overload, Short-circuit, Instantaneous & Earth-fault protections with current metering
- ET2A provides Overload & Short-circuit protections with current metering
- Icu=Ics=Icw(1sec) = 50kA @ 440V AC

Draw-out Type circuit breaker with Microprocessor based ET6A Trip Unit (with current metering)

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	MVS08N3MW6A	175900	MVS08N3NW6A	221800	MVS08N4MW6A	221800	MVS08N4NW6A	267600
1000	MVS10N3MW6A	191300	MVS10N3NW6A	237200	MVS10N4MW6A	239500	MVS10N4NW6A	285400
1250	MVS12N3MW6A	214000	MVS12N3NW6A	259900	MVS12N4MW6A	256900	MVS12N4NW6A	302800
1600	MVS16N3MW6A	233100	MVS16N3NW6A	279000	MVS16N4MW6A	299000	MVS16N4NW6A	344900
2000	MVS20N3MW6A	282500	MVS20N3NW6A	328300	MVS20N4MW6A	341700	MVS20N4NW6A	387600
2500	MVS25N3MW6A	340700	MVS25N3NW6A	386600	MVS25N4MW6A	416000	MVS25N4NW6A	461900
3200	MVS32N3MW6A	431100	MVS32N3NW6A	477000	MVS32N4MW6A	531700	MVS32N4NW6A	577600
4000	MVS40N3MW6A	520400	MVS40N3NW6A	566300	MVS40N4MW6A	657900	MVS40N4NW6A	703800

Draw-out Type circuit breaker with Microprocessor based ET2A Trip Unit (with current metering)

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	MVS08N3MW2A	159600	MVS08N3NW2A	205500	MVS08N4MW2A	205500	MVS08N4NW2A	251400
1000	MVS10N3MW2A	175000	MVS10N3NW2A	220900	MVS10N4MW2A	223200	MVS10N4NW2A	269100
1250	MVS12N3MW2A	197700	MVS12N3NW2A	243600	MVS12N4MW2A	240700	MVS12N4NW2A	286500
1600	MVS16N3MW2A	216800	MVS16N3NW2A	262700	MVS16N4MW2A	282800	MVS16N4NW2A	328700
2000	MVS20N3MW2A	266200	MVS20N3NW2A	312100	MVS20N4MW2A	325400	MVS20N4NW2A	371300
2500	MVS25N3MW2A	324500	MVS25N3NW2A	370300	MVS25N4MW2A	399700	MVS25N4NW2A	445600
3200	MVS32N3MW2A	414900	MVS32N3NW2A	460700	MVS32N4MW2A	515400	MVS32N4NW2A	561300
4000	MVS40N3MW2A	504100	MVS40N3NW2A	550000	MVS40N4MW2A	641700	MVS40N4NW2A	687500

Note:

All draw-out type circuit breakers will be supplied with:

- Top and Bottom horizontal terminations.
- 1 No. Electrical fault indication Contact (SDE).
- 1 No. Auxiliary contact block (OF) with 4 C/O contacts.
- Safety shutters on Chassis & door sealing frame- Escutcheon (CDP).

- All electrical operated breakers are supplied with motor mechanism (MCH), closing coil (XF) & shunt release (MX). (Voltage ratings to be specified by customer & duly filled in ACB Order form)
- External Neutral CT required for highly un-balanced TP-N system has to be ordered at extra price.
- Any other accessories are optional at extra price.

Prices:

- The above are list prices & are inclusive of Excise duty.
- CST/ VAT/ Entry tax will be charged extra as applicable.
- For prices of fixed type circuit breakers and switch-disconnector, kindly contact our nearest Sales Office.



- Conforms to IS/ IEC 60947-2 & 3
- Microprocessor based ET trip systems with thermal memory
- No derating up to 50°C
- Zone Selective Interlocking
- Fully rated neutral with inbuilt protection
- Pre trip alarm & individual fault indicating LEDs
- ET6V provides Overload, Short-circuit, Instantaneous & Earth-fault protections with current and voltage metering
- ET2V provides Overload & Short-circuit protections with current voltage metering
- Icu=Ics=Icw(1sec) = 50kA @ 440V AC

Draw-out Type circuit breaker with Microprocessor based ET6V Trip Unit (with voltage metering)

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	MVS08N3MW6V	184050	MVS08N3NW6V	230000	MVS08N4MW6V	229950	MVS08N4NW6V	275800
1000	MVS10N3MW6V	199500	MVS10N3NW6V	245400	MVS10N4MW6V	247700	MVS10N4NW6V	293600
1250	MVS12N3MW6V	222200	MVS12N3NW6V	268100	MVS12N4MW6V	265150	MVS12N4NW6V	311000
1600	MVS16N3MW6V	241300	MVS16N3NW6V	287200	MVS16N4MW6V	307250	MVS16N4NW6V	353100
2000	MVS20N3MW6V	290650	MVS20N3NW6V	336500	MVS20N4MW6V	349850	MVS20N4NW6V	395700
2500	MVS25N3MW6V	348900	MVS25N3NW6V	394800	MVS25N4MW6V	424200	MVS25N4NW6V	470100
3200	MVS32N3MW6V	439300	MVS32N3NW6V	485200	MVS32N4MW6V	539900	MVS32N4NW6V	585800
4000	MVS40N3MW6V	528550	MVS40N3NW6V	574500	MVS40N4MW6V	666100	MVS40N4NW6V	712000

Draw-out Type circuit breaker with Microprocessor based ET2V Trip Unit (with voltage metering)

Rating In (A)	3P Draw-Out Manual Reference	Unit LP [₹]	3P Draw-Out Electrical Reference	Unit LP [₹]	4P Draw-Out Manual Reference	Unit LP [₹]	4P Draw-Out Electrical Reference	Unit LP [₹]
800	MVS08N3MW2V	167800	MVS08N3NW2V	213700	MVS08N4MW2V	213700	MVS08N4NW2V	259600
1000	MVS10N3MW2V	183200	MVS10N3NW2V	229100	MVS10N4MW2V	231400	MVS10N4NW2V	277300
1250	MVS12N3MW2V	205900	MVS12N3NW2V	251800	MVS12N4MW2V	248900	MVS12N4NW2V	294700
1600	MVS16N3MW2V	225000	MVS16N3NW2V	270900	MVS16N4MW2V	291000	MVS16N4NW2V	336800
2000	MVS20N3MW2V	274400	MVS20N3NW2V	320300	MVS20N4MW2V	333600	MVS20N4NW2V	379500
2500	MVS25N3MW2V	332600	MVS25N3NW2V	378500	MVS25N4MW2V	407900	MVS25N4NW2V	453800
3200	MVS32N3MW2V	423000	MVS32N3NW2V	468900	MVS32N4MW2V	523600	MVS32N4NW2V	569500
4000	MVS40N3MW2V	512300	MVS40N3NW2V	558200	MVS40N4MW2V	649800	MVS40N4NW2V	695700

Note:

All draw-out type circuit breakers will be supplied with:

- Top and Bottom horizontal terminations.
- 1 No. Electrical fault indication Contact (SDE).
- 1 No. Auxiliary contact block (OF) with 4 C/O contacts.
- Safety shutters on Chassis & door sealing frame- Escutcheon (CDP).

- All electrical operated breakers are supplied with motor mechanism (MCH), closing coil (XF) & shunt release (MX). (Voltage ratings to be specified by customer & duly filled in ACB Order form)
- External Neutral CT required for highly un-balanced TP-N system has to be ordered at extra price.
- Any other accessories are optional at extra price.

Prices:

- The above are list prices & are inclusive of Excise duty.
- CST/ VAT/ Entry tax will be charged extra as applicable.
- For prices of fixed type circuit breakers and switch-disconnector, kindly contact our nearest Sales Office.

Description	Rated Operational Voltage	Reference	Unit MRP [₹]
Gear Motor (MCH)			
AC 50/60 Hz	100/130 V	47893	37500
	200/240 V	47894 <input checked="" type="checkbox"/>	
	380/415 V	47896	
DC	24/30 V	47888	
	48/60 V	47889	
	100/125 V	47890	
	200/250 V	47891	
Closing Release (XF)			
AC 50/60 Hz DC	24/30 V DC	33659	5300
	48/60 V DC	33660	
	100/130 V AC/DC	33661 <input checked="" type="checkbox"/>	
	200/250 V AC/DC	33662 <input checked="" type="checkbox"/>	
	380/480 V AC	33664	
Opening Release (MX)			
AC 50/60 Hz DC	24/30 V DC, 24 V AC	33659	5300
	48/60 V DC, 48 V AC	33660	
	100/130 V AC/DC	MVS15511 <input checked="" type="checkbox"/>	
	200/250 V AC/DC	MVS15512 <input checked="" type="checkbox"/>	
	380/480 V AC	MVS15513 <input checked="" type="checkbox"/>	
Terminal Block			
For drawout circuit breaker		47849	200
Under Voltage Release (MN)			
AC 50/60 Hz DC	24/30 V DC, 24 V AC	33668	5500
	48/60 V DC, 48 V AC	33669	
	100/130 V AC/DC	33670 <input checked="" type="checkbox"/>	
	200/250 V AC/DC	33671 <input checked="" type="checkbox"/>	
	380/480 V AC	33673 <input checked="" type="checkbox"/>	
MN Delay Unit			
AC 50/60 Hz DC	48/60 V AC/DC	33680	7900
	100/130 V AC/DC	33681	
	200/250 V AC/DC	33682	
	380/480 V AC/DC	33683	7400
	100/130 V AC/DC	33684	
	200/250 V AC/DC	33685 <input checked="" type="checkbox"/>	
ON/OFF Indication Contacts (Additional OF contact)			
1 additional block of 4 contacts		47887	4800
Door Interlock (VPECD)/1 part			
On right hand side of chassis		47914 <input checked="" type="checkbox"/>	2600
Operation Counter			
Operation Counter CDM		48535	7450

Masterpact NT and NW



- 630A to 6300A
- Breaking Capacity upto 150kA
- Fixed, Draw out type
- Solution for 690V and 1000V
- Earthing switch version
- DC Circuit Breaker version
- Built-in energy metering (1.5% accuracy class)
- Smart Integration over Communication Network
- Total Discrimination

3 sizes



Masterpact NT 630 to 1600A



Masterpact NW 800 to 4000A



Masterpact NW 4000 to 6300A



Micrologic E Micrologic P Micrologic H

L1 150kA	■	■	■		
H2 50kA	■	■	■	■	■
H1 42kA	■	■	■	■	■
	NT 06	NT 08	NT 10	NT 12	NT 16

L1 150kA	■	■	■	■	■			
H3 150kA		■	■	■	■			
H2 100kA	■	■	■	■	■	■	■	
H1 65kA	■	■	■	■	■	■	■	
N1 42kA	■	■	■	■				
	NW08	NW10	NW12	NW16	NW20	NW25	NW32	NW40

H2 150kA	■	■	■
H1 100kA	■	■	■
	NW 40b	NW 50	NW 63

Masterpact NT and NW

Selection Guide

Range	Current Rating	Type	Pole	Operating Mechanism	Installation	Protection No.	Type
NW	06	N1	3P	M	F	2.0	E
NT	08	H1	4P	E	DO	5.0	P
	10	H2				6.0	H
	12	H3				7.0	-
	16	H10				0	-
	20	L1					
	25	NA					
	32	HA					
	40	HF					
	40b	HA10					
	50						
63							

							Type E Energy Parameters P Power Parameters H Harmonics Parameters - Switch Disconnecter
							Protection No. 2.0 LI Protection 5.0 LSI Protection 6.0 LSIG Protection 7.0 LSIV Protection 0 No protection for switch disconnecter
							Type of Installation F Fixed DO Drawout
							Operating Mechanism M Manually Operated ACB/SD E Electrically Operated MCH + XF + MX
							Number of Poles 3P 3 Poles 4P 4 Poles
							Breaking Capacity N1 42kA (in NW only upto 1600A) H1 42kA (in NT) and 65kA (in NW) H2 50kA (in NT) and 100kA (in NW upto 4000A, frame 1) H3 150kA (in NW upto 4000A, frame 1) H10 available for 1000V NT and NW (upto 4000A, frame 1) L1 150kA current limiting breaker (upto 1000A in NT and upto 2000A in NW) NA Switch disconnecter upto 1600A in NW HA Switch disconnecter upto 1600A in NW and NT HF Switch disconnecter upto 4000A in NW HA10 Switch disconnecter for 1000V NT
							Current Rating 06 630A Available in NT 08 800A Available in NT and NW 10 1000A Available in NT and NW 12 1250A Available in NT and NW 16 1600A Available in NT and NW 20 2000A Available in NW 25 2500A Available in NW 32 3200A Available in NW 40 4000A Available in NW 40b 4000A Available in NW 50 5000A Available in NW 63 6300A Available in NW

Example 1: **NW32H14PEDO6.0E**

NW	32	H1	4P	E	DO	6.0	E
Masterpact NW	3200A	65kA	4 Pole	Electrical operated	Drawout	LSIG Protection	Trip unit with Energy Metering

Example 2: **NT08H13PMF6.0P**

NT	08	H1	3P	M	F	6.0	P
Masterpact NT	800A	42kA	3 Pole	Manually operated	Fixed	LSIG Protection	Trip unit with Power Metering

Micrologic trip system Overview of functions

Micrologic name codes

2.0 E
X Y Z

X: type of protection

- 2 for basic protection
- 5 for selective protection
- 6 for selective + earth-fault protection
- 7 for selective + earth-leakage protection.

Y: control-unit generation

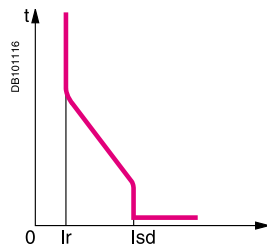
Identification of the control-unit generation.
"0" signifies the first generation.

Z: type of measurement

- E for "Energy"
- P for "power meter"
- H for "harmonic meter".

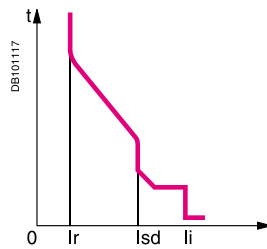
Current protection

Micrologic 2: basic protection



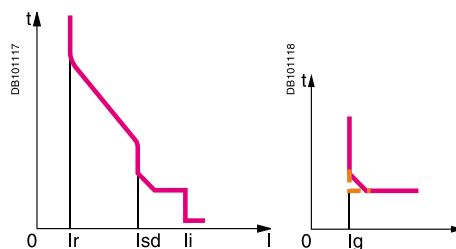
Protection:
long time
+ instantaneous

Micrologic 5: basic protection



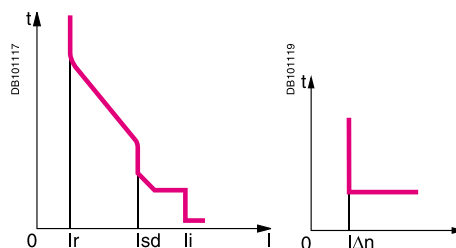
Protection:
long time
+ short time
+ instantaneous

Micrologic 6: selective + earth-fault protection



Protection:
long time
+ short time
+ instantaneous
+ earth fault

Micrologic 7: selective + earth-leakage protection



Protection:
long time
+ short time
+ instantaneous
+ earth leakage up to 3200A

Measurements and programmable protection

E: Energy

- $I_1, I_2, I_3, I_N, I_{\text{earth-fault}}, I_{\text{earth-leakage}}$ and maximeter for these measurements
- fault indications
- settings in amperes and in seconds.
- calculates the current demand value
- "Quickview" function for the automatic cyclical display of the most useful values (as standard or by selection).

P: E + power meter + programmable protection

- measurements of V, A, W, VAR, VA, Wh, VARh, VAh, Hz, $V_{\text{peak}}, A_{\text{peak}}$, power factor and maximeters and minimeters
- IDMTL long-time protection, minimum and maximum voltage and frequency, voltage and current imbalance, phase sequence, reverse power
- load shedding and reconnection depending on power or current
- measurements of interrupted currents, differentiated fault indications, maintenance indications, event histories and time-stamping, etc.

H: P + harmonics

- power quality: fundamentals, distortion, amplitude and phase of harmonics up to the 31st order
- waveform capture after fault, alarm or on request
- enhanced alarm programming: thresholds and actions.




Micrologic E

Energy efficiency, now within your reach



Micrologic E is a new optimized and affordable trip unit to democratize Energy Efficiency in the high power breakers

Micrologic E control unit across facility can easily help gather, analyze and report data to reveal opportunities, to drive energy efficient behaviour and validate savings from equipment upgrade or process changes.

				
		E 'Energy'	P 'Power'	H 'Harmonics'
Measurement	Current , maximeter	●	●	●
	Voltage, PF, Power, demand, energy	●	●	●
	Cos-φ, frequency, per phase, advanced protection		●	●
	Harmonics, waveform capture, enhanced alarms			●
Protection	2 (L, I)	2.0 E		
	5 (L, S, I)	5.0 E	5.0 P	5.0 H
	6 (L, S, I,G)	6.0 E	6.0 P	6.0 H
	7 (L, S, I, V)		7.0 P	7.0 H

ATS Kit

Suitable for Masterpact NT/ NW ACB

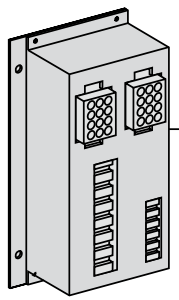
This Kit comprises of :

- > Adaptation fixture & set of two cables for mechanical interlocking
- > IVE unit for Electrical Interlocking
- > ACP control Plate
- > UA/BA controller

*Note: For ATS with Masterpact NT/NW ACB, order 2 nos. of ACB's with ready to close PF contact + 1 no. ATS Kit



ACP unit



IVE unit



Controller

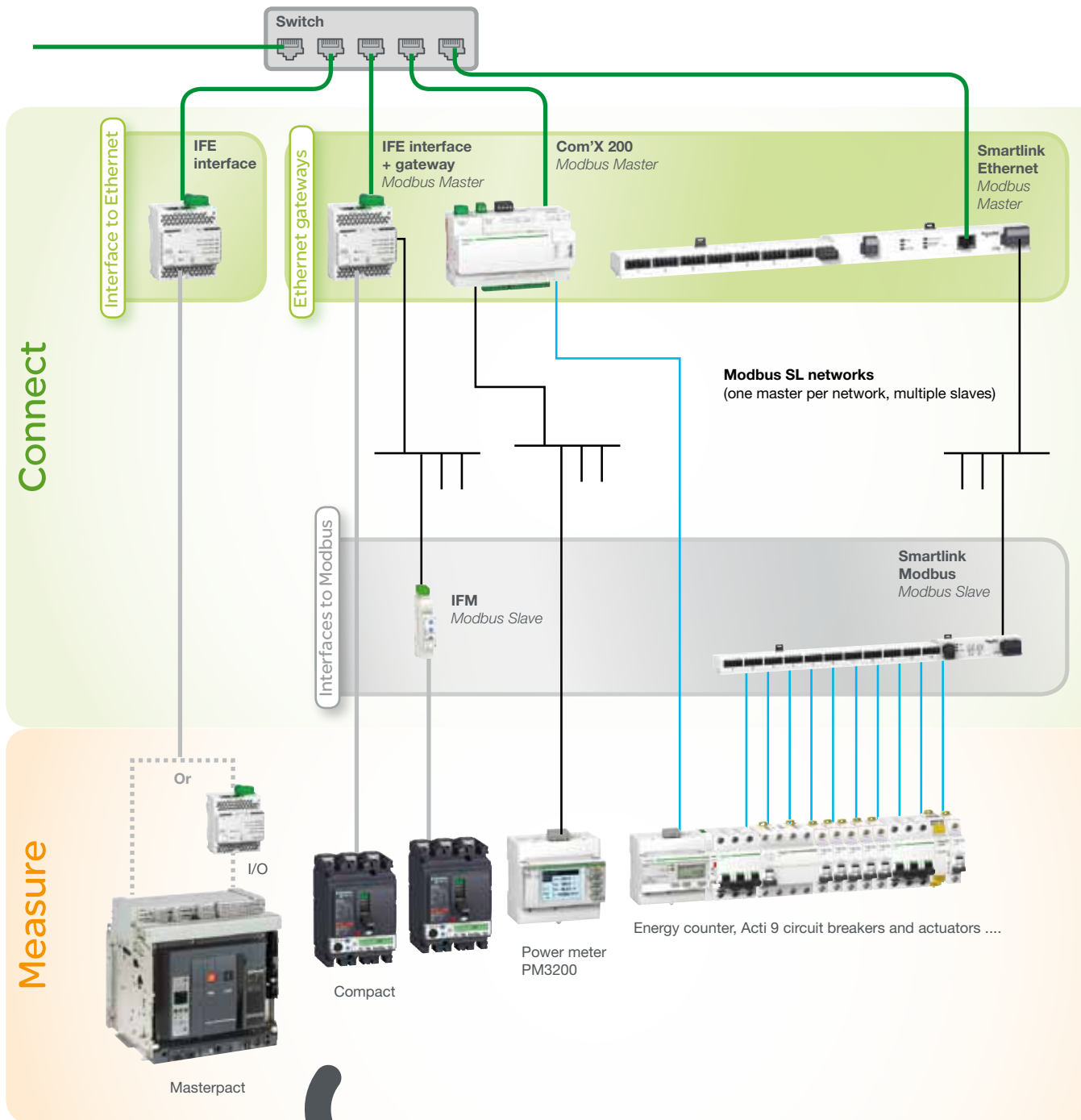


Mechanical interlocking using cable

Description	Reference	Unit MRP [₹]
ATS Kit for Masterpact NT EDO type with BA 415VAC controller	INA_NTDOB4	115000
ATS Kit for Masterpact NT EDO type with UA 415VAC controller	INA_NTDOU4	131920
ATS Kit for Masterpact NW EDO type with BA 415VAC controller	INA_NWDOB4 <input checked="" type="checkbox"/>	124590
ATS Kit for Masterpact NW EDO type with UA 415VAC controller	INA_NWDOU4 <input checked="" type="checkbox"/>	131920

**ATS Kit with for Fixed Breaker and BA controller with 240VAC, contact our nearest Sales Office

Smart Panel Architecture NEW



Connect

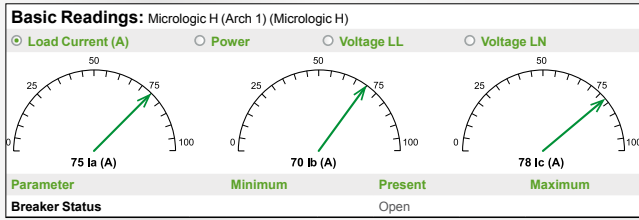
Measure

- Ethernet
- Modbus
- ULP
- Hard wired

- > This diagram clearly shows the equipment involved into the "Measure" and "Connect" functionalities defining the Smart Panel concept
- > Interface: provides a network port to one or several devices (circuit breakers, actuators, counters,...) from their hard wired or ULP links
- > Gateway: ensures the communication between two networks with different protocols (Ethernet and Modbus)

Web pages generated by IFE interface + gateway

Monitoring of electrical values - Breaker status



Information for Maintenance

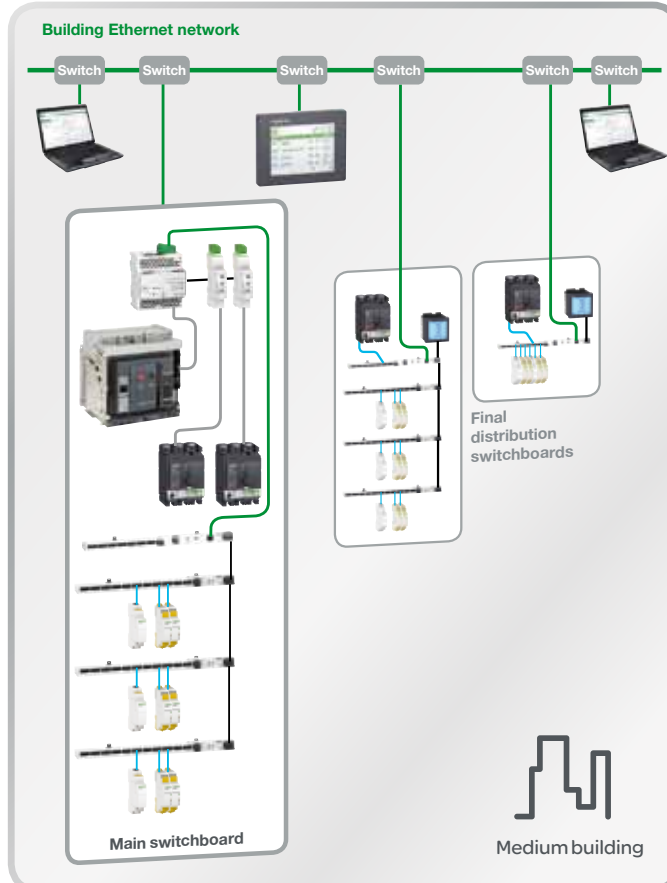
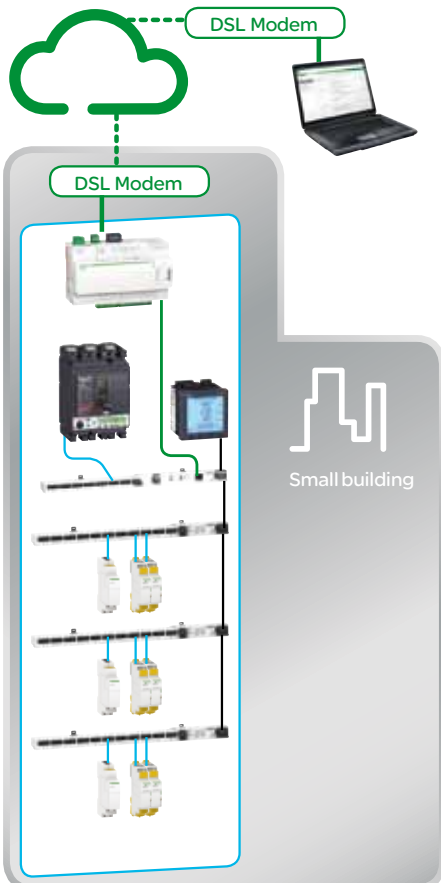
Micrologic H (Arch 1) (Micrologic H)

Breaker operation Counters	
Counters	Value
Total number of indication contacts (OF) operation	54
Indication contacts (OF) operation since last reset	54
Trip indication contact (SD) operation	---
Fault trip indication contact (SDE) operation	78









Breaker operation Counters	
Counters	Value
Contact wear indicator	--- %

Cradle Counters	
Counters	Value
Cradle connected	62
Cradle disconnected	20
Cradle test	7

- Ethernet
- Modbus
- ULP
- Hard wired



Enerlin'X Components NEW

Enerlin'X communication devices and displays									
	Name	Function	Port		Bin. Input	Analog. Input	Bin. Output	Cial. Ref.	
			(to device)	(to server)					
A		Com'X 200	Energy Server with Ethernet Gateway ⁽¹⁾ function	Modbus Master	Ethernet cable + WiFi	6	2	-	EBX200
B		FDM128	Ethernet LCD colour touch screen	-	Ethernet	-	-	-	FLV434128
C		FDM121	LCD display for circuit breaker	ULP	-	-	-	-	TRV00121
D		IFE interface + gateway	Ethernet interface ⁽²⁾ & Gateway	Modbus Master & ULP	Ethernet	-	-	-	LV434011
		IFE interface	Ethernet interface for circuit breakers	ULP	Ethernet	-	-	-	LV434010
E		Acti 9 Smartlink Ethernet	Ethernet interface ⁽²⁾ & Gateway	Modbus Master	Ethernet	14	2	7	A9XMEA08
F		Acti 9 Smartlink Modbus	Modbus interface with Input/Output functions	-	Modbus Slave	22	-	11	A9XMSB11
G		IFM	Modbus interface for circuit breaker	ULP	Modbus Slave	-	-	-	TRV00210
H		I/O	Input/Output application module for circuit breaker	ULP	ULP	6	-	3	LV434063

1) Gateways: transfers data from a network to another (ie.: Modbus to Ethernet)
 2) Interface: transfers data from an equipment to a network. (ie.: ULP to Modbus)



Plug and play commissioning tools give a real peace of mind to panel builders as their panels can be functionally checked before delivery.

Commissioning / maintenance tools

Web pages embedded into Com'X 200 and Acti 9 Smartlink Ethernet gateways

Access with a standard PC and common browser:

- commissioning
- communication diagnosis
- functional tests...

Electrical Asset Manager

Loaded into a standard PC Error free commissioning.

Time saving, easier management and maintenance thanks to the advanced services:

- project management
- configuration of controllers, gateways, ...
- test of communication networks, diagnostic report...

Prisma iPM

Pre-Designed Low Voltage Distribution System



Unique kit solution, optimally designed with **Your Safety** in mind !!

- Tested and compliant with IEC 61439-1 & 2.
- Fully integrates Schneider Electric switchgear.



Give your business a new dimension with Prisma iPM:



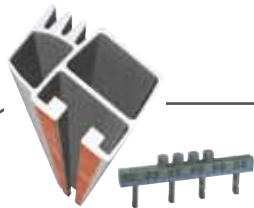
Standardized & tested switchboard

- Solution designed as per IEC 61439-1 and 2
- Maximum short circuit withstand 85kA/1sec
- Device layout completely in line with thermal and electrodynamic performance



Pre fabricated, Modular, Kit design

- Two versions: Wall mounted and Floor standing for applications upto 4000A
- Quick assembly time
- Attractive design



Unique current distribution solution

- Patented linergy busbars: A new generation of channeled busbars
- Distribution blocks that blend perfectly with the devices



**Improved
continuity
of service**



**Safety and
durability**



**High long-term
profitability**

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