



11 LMH...

11 LMU... - 11 LMA...



11 SMX90 32



11 SMX90 30

11 SMX90 31



11 LMZ111 - 11 LMZ112



11 LMZ113 - 11 LMZ114



11 LMZ105

11 LMZ106



11 LMNPE



23 NEON...V

Order code	Characteristics	Qty per pkg	Wt
		n°	[kg]
Add-on auxiliary contacts. Side mount.			
11 LMH 01	1NC	10	0.037
11 LMH 10	1NO	10	0.036
11 LMH 11	1NO + 1NC	10	0.042
11 LMH 20	2NO	10	0.037
Undervoltage trip release.			
11 LMU <sup>①</sup>	To fit inside starter. For all types	10	0.066
Shunt trip release.			
11 LMA <sup>①</sup>	To fit inside starter. For all types	10	0.064
Terminal block for busbar supply.			
11 SMX90 30	For all types	10	0.048
Safety cover.			
11 SMX90 31	For unused busbar terminals	10	0.005
Three-phase connection busbars 45mm/1.77" spacing.			
11 SMX90 32	For 2 breakers without side-mount contacts	10	0.028
11 SMX90 33	For 3 breakers without side-mount contacts	10	0.050
11 SMX90 34	For 4 breakers without side-mount contacts	10	0.071
11 SMX90 35	For 5 breakers without side-mount contacts	10	0.092
Three-phase connection busbars 54mm/2.13" spacing.			
11 SMX90 42	For 2 breakers complete with side-mount contacts	10	0.031
11 SMX90 43	For 3 breakers complete with side-mount contacts	10	0.056
11 SMX90 44	For 4 breakers complete with side-mount contacts	10	0.081
11 SMX90 45	For 5 breakers complete with side-mount contacts	10	0.089
Surface mount enclosures.			
11 LMZ 111	IP55. 80mm/3.15" wide	1	0.260
11 LMZ 112	IP54. 80mm/3.15" wide	1	0.273
Flush mount enclosures.			
11 LMZ 113	IP55. 85mm/3.35" wide	1	0.204
11 LMZ 114	IP41. 85mm/3.35" wide	1	0.184
ACCESSORIES FOR ENCLOSURES.			
Locking mechanism.			
11 LMZ 105	3 padlocks maximum	10	0.091
Normal stop button. IP55 protection.			
11 LMZ 106	For LMZ 111, LMZ113 and LMZ 114	1	0.051
Neutral connection.			
11 LMN PE	For all types	10	0.010
Pilot light.			
23 NEONV <sup>②</sup>	Green	10	0.006
23 NEONR <sup>②</sup>	Red	10	0.006
Spare rubber membrane complete with rim for enclosures.			
11 LMM	For LMZ 111, LMZ113 and LMZ 114 enclosures	10	0.012
M25 to PG16 entry adapter.			
11 LM M25 PG16	For LMZ111 and LMZ112 enclosures	10	0.009

① Specify rated voltage. Add suffix 60 if frequency is 60Hz. Available voltages:  
– AC 50Hz 24/48/110/220-240 (indicate 220)/380-415 (indicate 380)/440-460 (indicate 440)/480 and 575VAC.

② Complete with required voltage. Available voltages:  
– AC 50/60Hz 24/110/220-240 (indicate 220)/380-415 (indicate 380) VAC.

### General and operational characteristics

#### ADD-ON AUXILIARY CONTACTS

- Connectable to right or left side of starter
- Maximum combination: 2 LMH... blocks, one on right and one on left side of starter (4 auxiliary contacts max in total)
- IEC rated insulation voltage  $U_i$ : 500V
- IEC conventional free air thermal current  $I_{th}$ : 6A
- IEC operational current AC15: 3.5A 230V; 2A 400V
- IEC protection fuse (gL or gG): 6A maximum
- Maximum tightening torque: 1Nm/9lbin
- Conductor cross section minimum-maximum (1 or 2 wires): 0.75-2.5mm<sup>2</sup> or 18/14 AWG
- Width of the auxiliary contacts LMH... equal to 0.5 standard DIN 43880 modules.

#### UNDERVOLTAGE AND SHUNT TRIP RELEASES

- Must be fitted inside the motor starter.

	Undervoltage	Shunt
Release range	0.35-0.7Us	—
Operating range	0.85-1.1Us	0.7-1.1Us
On-load factor	100%	—

#### TERMINAL BLOCK FOR BUSBAR SUPPLY

- I<sub>max</sub> 63A
- Maximum tightening torque: 2.3Nm/20lbin
- Conductor cross section minimum-maximum: 4-25mm<sup>2</sup> or 10/4 AWG.

#### THREE-PHASE CONNECTION BUSBAR

- I<sub>max</sub> 63A
- SMX90 3... 45mm/1.77" spacing to reduce the width to the minimum
- SMX90 4... 54mm/2.13" spacing to consent to fit one side mount auxiliary contact block on the breaker.

#### SURFACE MOUNT ENCLOSURE

- Top or bottom entry:
  - M25 threaded knockouts
- Rear entry:
  - 15.5mm/0.6" knockouts
- Up to two auxiliary contact blocks may be mounted
- Earth/ground terminal included
- Operating temperature: -5...+40°C
- Storage temperature: -50...+80°C.

#### FLUSH MOUNT ENCLOSURE

- Cutout size 70x115mm/2.76x4.53"
- Up to two auxiliary contact blocks may be mounted
- Earth/ground terminal included
- Operating temperature: -5...+40°C
- Storage temperature: -50...+80°C.

#### ACCESSORIES FOR ENCLOSURES

##### Locking mechanism:

- Prevents closing operation: 3 padlocks maximum.

##### Emergency stop button:

- Turn to release
- Red push-button Ø 35mm/1.38"

NOTE: Once mounted on the enclosure, these accessories raise the degree of protection from IP41 to IP55.

#### Certifications and compliance

Certifications obtained: EAC for all; UL Listed for USA and Canada (cULus - File E155982), under motor controllers, for auxiliary contacts and trip releases.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.