

INTERNATIONAL	<i>Technical Specifications</i>	
	MBS32	MBS63
Frame size		
Rated insulation voltage Ui	690V	100V
Rated operating voltage Ue	690V	690V
Rated impulse withstand strength Uimp	8KV	8KV
Rated frequency	50/60Hz	50/60Hz
Total power loss P (W)	0.16 to 25A 7W 32A 8.5W	up to 32A 11W 40A to 50A 15W 63A 17W
Utilization category:		63A 17W
IEC 947-2 (Circuit Breaker)	Cat. A	Cat. A
IEC 947-4-1 (Motor starter)	AC3	AC3
Mechanical operation performance	100,000 (70,000 for 32A)	50,000
Electrical operation performance	100,000 (70,000 for 32A)	25,000
Max. operations per hour (motor start-up)	25	25
Ambient conditions:		
Storage temperature	-40°C to +80°C	-40°C to +80°C
Operation temperature	-25°C to +60°C	-25°C to +60°C
Temperature compensation	-20°C to +60°C	-20°C to +60°C
Ambient temperature compensation	yes	yes
Operational altitude	up to 2000m	bis 2000m
Shock resistance (IEC 68)	30g (width 20ms)	30g (width 20ms)
Vibration resistance	8g (5 to 150Hz)	8g (5 to 150Hz)
Shock-hazard protection (acc.DIN VDE 0106)	safe from finger touch	safe from finger touch
Protection degree (acc.to IEC529)	IP20	IP10 (IP20 with MAPTP63)
Rated current Ie	to 32A	up to 63A
Overload protection	IEC 947-4-1	IEC 947-4-1
Phase failure protection	yes	yes
Tripping class	10	10
Magnetic release (factory set)	13 x lemax	13 x lemax
Test trip button	yes	yes
Standards & Approvals		
IEC 947-1 / -2 / -4-1	yes	yes
DIN VDE 0660T 100 / 101 / 102	yes	yes
UL508	yes	yes
CE	yes	yes
cUL	yes	yes
D / S / N / Fi	Pending	-
Shipboard Approval	Pending	Pending
PTB test	Pending	Pending

Mounting data

Terminal capacity:		
Solid or stranded without end sleeve	1 x 1...10mm ² 2 x 1...6mm ²	1 or 2 x 1...25mm ²
Stranded with end sleeve	1 or 2 x 1...6mm ²	1 x 1...25mm ² / 2 x 1...16mm ²
AWG	1 x 18...8 / 2 x 18...10	1 x 18...2 / 2 x 18...4
Operating mechanism lockable in OFF position diameter (mm)	3.5 to 4.5	3.5 to 4.5
Terminal type	screw	box
Tightening torque	2 Nm / 18Lb.in	5 Nm / 45Lb.in
Screwdriver	Pz2 / slotted combination	Pz2 / slotted combination
Mounting:		
DIN-rail	yes	yes
Screws	no	yes
Operating position:		
turning to the front	30°	30°
turning to the back	90°	90°
turning to both sides	180°	180°
Handle operation	Rocker level / Rotary drive	Rotary drive
Dimensions		
width (mm)	45	55
height (mm)	90	120
depth (mm)	(M(b)s32*SG) 75 / 92.5 (M(b)s32*HG)	107.5