



MCN240



MCB 2P 6kA C-40A 2M

Technical properties

Δ	rc	h	it	0	cti	ire

Architecture	
Number of protected poles	2
Number of poles	2 P
Type of pole	2 P
Curve	С
Functions	
Concurrently switching N-neutral	No
Configuration	
Number of modules	2
Connectivity	
Top connection alignement for modular devices	Aligned terminal
Bottom connection alignement for modular devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	6 kA
Rated operational voltage Ue	400 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	500 V
Rated impulse withstand voltage	4000 V
Electric current	
Rated current	40 A
Rated service breaking capacity Ics AC according IEC 60898-1	6 kA
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 ln
Magnetic regulating currrent	5 / 10 ln
min/maxi threshold value of the DC magnetic operation	7 / 15 ln
min/maxi threshold value of the DC thermal operation	1.13 / 1.45 In
Breaking capacity on 1 pole for IT 400V NF 60947-2	3 kA
Rated short circuit breaking capacity Icn under 400V AC according IEC60898-1	6 kA

Rated ultimate short-circuit breaking capa- city Icu under 400V AC IEC 60947-2	10 k
Rated ultimate short-circuit breaking capa- city Icu under 415V AC IEC 60947-2	10 k/
Electric current / temperature	
Rating current -25°C	51.4
Rating current -20°C	50.4
Rating current -15°C	49.5
Rating current -10°C	48.5
Rating current -5°C	47.5
Rating current 0°C	46.5
Rating current 5°C	45.5
Rating current 10°C	44.5
Rating current 15°C	43.4
Rating current 20°C	42.3
Rating current 25°C	41.2
Rating current 30°C	40 .
Rating current 35°C	38.8
Rating current 40°C	37.6
Rating current 45°C	36.3
Rating current 50°C	35
Rating current 55°C	33.6
Rating current 60°C	32.2
Rating current 65°C	30.7
Rating current 70°C	29.1
Current correction factors	
Correction factor of rating current for 2 devices placed side-by-side	
Correction factor of rating current for 3 devices placed side-by-side	0.9
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.
Correction factor of rating current for 6 devices placed side-by-side	0.8
Correction factor of magnetic tripping with 100 Hz	1.
Correction factor of magnetic tripping with 200 Hz	1.
Correction factor of magnetic tripping with 400 Hz	1.
Correction factor of magnetic tripping with 60 Hz	
Dimensions	
Depth of installed product	70 mr
Height of installed product	83 mr
Width of installed product	35 mr
Frequency	
Frequency	50 to 60 H

Endurance Electric endurance in number of cycles 40000 Number of mechanical operations 200000 Installation, mounting Type of top connection for modular devices with screw 719th of top connection for modular devices Blconnect Connection Connection 21 / 25mm² Connection cross-sect. flexible conductor 1 / 35mm² Connection cross-sect. rigid cable 1 / 35mm² Connection cross-sect. rigid cable 1 / 35mm² Connection cross-section of input and output with screws, for massive conductors 1 / 25 mm² Standards Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation IPt 3 Attitude 2000 m	Power	
Electric endurance in number of cycles 4000 Number of mechanical operations 20000 Installation, mounting Type of top connection for modular devices with screw 7:19th of top connection for modular devices Blconnect Connection Connection Connection cross-sect. flexible conductor 1 / 25mm² Connection cross-sect. rigid cable 1 / 35mm² Connection cross-sect. rigid cable 1 / 35mm² Connection cross-sect. of input and output with screws, for massive conductors 1 / 25 mm² Standards Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation IPt 3 Attitude 2000 m	Total power loss under IN	10.5 W
Electric endurance in number of cycles Number of mechanical operations 20000 Installation, mounting Type of top connection for modular devices With screw Tightening torque 2,8Nm Type of Bottom Connection for modular devices Blconnect Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable 1/35mm² Connection cross-section of input and output with screws, for massive conductors Connection cross section of access and exit with screws, for flexible conductor Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C LICE 60947-2 Class of energy limitation I²t 3 Altitude 2000 m	Power loss per pole at In	5.5 W
Installation, mounting Type of top connection for modular devices with screw Tightening torque 2,8Nm Type of Bottom Connection for modular devices Blconnect Connection Connection cross-sect. flexible conductor 1/25mm² Connection cross-sect. rigid cable 1/35mm² Connection cross-section of input and output with screws, for massive conductors 1/25 mm² Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Legse of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation IPt 3 Aktitude 2000 m	Endurance	
Installation, mounting Type of top connection for modular devices with screw 2,8Nm Type of Bottom Connection for modular devices Blconnect Connection Connection Connection cross-sect. flexible conductor 1 / 25mm² Connection cross-sect. rigid cable 1 / 35mm² Connection cross-section of input and output with screws, for massive conductors 1 / 25 mm² Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t 3 Altitude 2000 m	Electric endurance in number of cycles	4000
Type of top connection for modular devices Tightening torque 2,8Nm Type of Bottom Connection for modular devices Connection Connection Connection cross-sect. flexible conductor Connection cross-sect. rigid cable 1 / 35mm² Connection cross-sect. of input and output with screws, for massive conductors 1 / 25 mm² Connection cross section of access and exit with screws, for flexible conductor Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Loggree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t 3 Altitude 2000 m	Number of mechanical operations	20000
Tightening torque 2,8Nm Type of Bottom Connection for modular devices Blconnect Connection Connection Connection 1, 25mm² Connection cross-sect. rigid cable 1, 35mm² Connection cross-section of input and output with screws, for massive conductors 1, 25 mm² Connection cross section of access and exit with screws, for flexible conductor 1,25 mm² Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t 3 Altitude 2000 m	Installation, mounting	
Type of Bottom Connection for modular devices Connection Connection Connection cross-sect. flexible conductor 1 / 25mm² Connection cross-sect. rigid cable 1 / 35mm² Connection cross-section of input and output with screws, for massive conductors 1 / 35 mm² Connection cross section of access and exit with screws, for flexible conductor 1 / 25 mm² Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Type of top connection for modular devices	with screw
Connection Connection Connection 1 / 25mm² Connection cross-sect. flexible conductor 1 / 35mm² Connection cross-sect. rigid cable 1 / 35mm² Connection cross-section of input and output with screws, for massive conductors 1 / 35 mm² Connection cross section of access and exit with screws, for flexible conductor 1 / 25 mm² Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Tightening torque	2,8Nm
Connection cross-sect. flexible conductor 1 / 25mm² Connection cross-sect. rigid cable 1 / 35mm² Connection cross-section of input and output with screws, for massive conductors 1 / 35 mm² Connection cross section of access and exit with screws, for flexible conductor 1 / 25 mm² Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Type of Bottom Connection for modular devices	Blconnect
Connection cross-sect. rigid cable Connection cross-section of input and output with screws, for massive conductors Connection cross section of access and exit with screws, for flexible conductor Standards Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t Altitude 1 / 35 mm² 1 / 35 mm² 1 / 25 mm² 2 concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Altitude	Connection	
Connection cross-section of input and output with screws, for massive conductors 1 / 35 mm² Connection cross section of access and exit with screws, for flexible conductor 1 / 25 mm² Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 22000 m	Connection cross-sect. flexible conductor	1 / 25mm²
output with screws, for massive conductors 1 / 35 mm² Connection cross section of access and exit with screws, for flexible conductor 1 / 25 mm² Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t 3 Altitude Altitude	Connection cross-sect. rigid cable	1 / 35mm²
Standards Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Connection cross-section of input and output with screws, for massive conductors	1 / 35 mm²
Standard text EN 60898-1 European directive WEEE concerned Safety Protection index IP IP20 REACH conform No RoHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Connection cross section of access and exit with screws, for flexible conductor	1 / 25 mm²
European directive WEEE concerned Safety Protection index IP IP20 REACH conform No RoHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Standards	
Safety Protection index IP IP20 REACH conform No ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Standard text	EN 60898-1
Protection index IP IP20 REACH conform No RoHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	European directive WEEE	concerned
REACH conform ROHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t 3 Altitude	Safety	
RoHS conform Yes Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 Class of energy limitation I²t 3 Altitude	Protection index IP	IP20
Halogen free No Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	REACH conform	No
Use conditions Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	RoHS conform	Yes
Operating temperature -2570 °C Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Halogen free	No
Degree of pollution according to IEC 60664 / IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Use conditions	
IEC 60947-2 2 Class of energy limitation I²t 3 Altitude 2000 m	Operating temperature	-2570 °C
Altitude 2000 m	Degree of pollution according to IEC 60664 / IEC 60947-2	2
	Class of energy limitation I ² t	3
Air humidity protection for all climates	Altitude	2000 m
	Air humidity protection	for all climates

-25...80 °C

Storage/transport temperature