

Motor Protection Circuit Breakers



Functions

Moulded Case Circuit Breaker and Thermal Overload Relay functions integrated into a highly compact unit known as Motor Protection Circuit Breaker.

Circuit Breaker Functions

- Short circuit protection
- Overcurrent protection
- Line protection

Thermal Overload Relay Functions

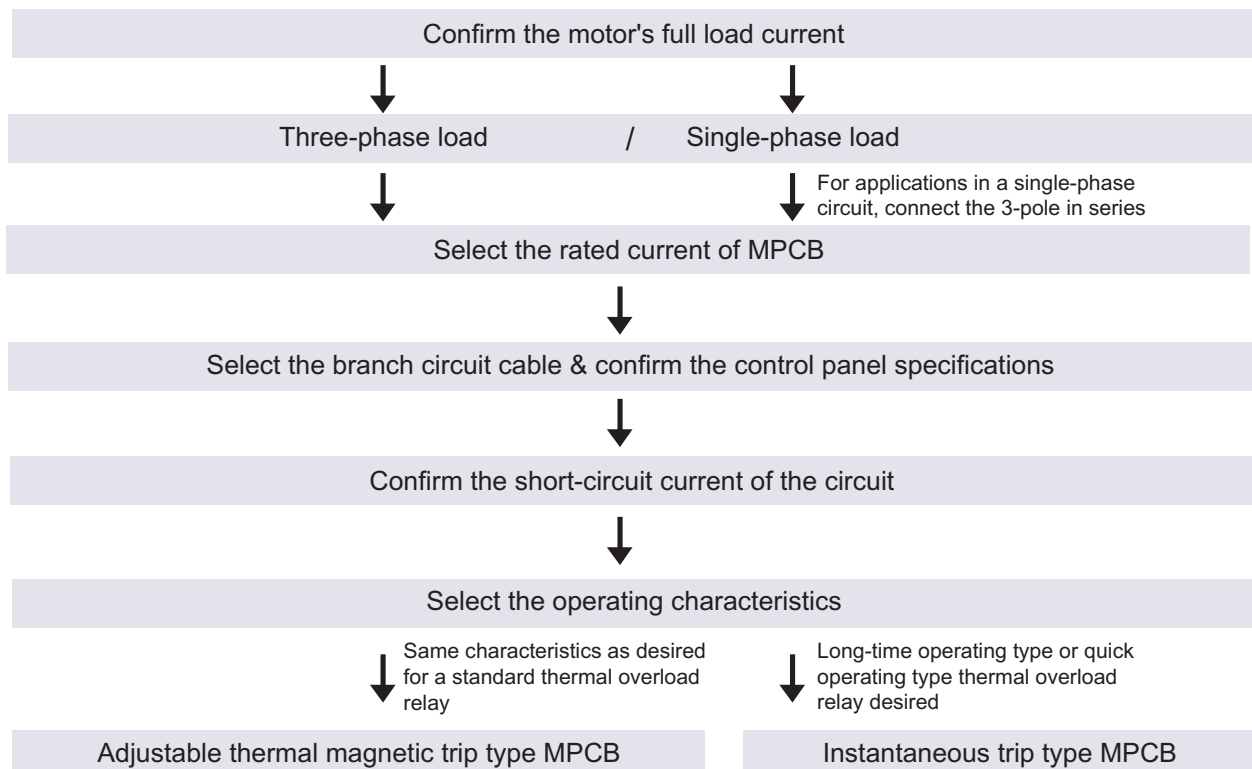
- Overload protection
- Phase loss protection
- Rated current adjustment
- Ambient temperature compensation

MPCB-Advantages

- Compactness
- High Breaking Capacity
- Short circuit protective coordination
- Reduction in wiring work
- Ecological design standards

Selecting the Appropriate Model

Procedure for selecting the appropriate model:



Technical Specifications



Type		MOG-S1		MOG-H1	
Standards		IEC60947-1, -2, -4-1		IEC60947-1, -2, -4-1	
Handle type		Rocker		Rotary	
Number of poles		3		3	
Frame		13A		32A	
Rated insulation voltage (Ui)		AC690V		AC690V	
Rated operational voltage (Ue)		AC200-690V		AC200-690V	
Rated impulse withstand voltage (Uimp)		6KV		6KV	
Rated frequency		AC50/60Hz		AC50/60Hz	
Utilization Category (IEC947-4-1/947-2)		AC-3/Cat. A		AC-3/Cat. A	
Maximum motor capacity AC3		7.5 kW (at 200-240V), 15 kW (at 380-440V)		7.5 kW (at 200-240V), 15 kW (at 380-440V)	
AC3 Electrical/Mechanical endurance		100000 (32A:70000)/100000 (32A:70000), (25cycles/hour)		100000 (32A:70000)/100000 (32A:70000), (25cycles/hour)	
Tripping device		Thermal-Magnetic		Thermal-Magnetic	
Ambient temperature compensation		-20~ + 60°C		-20~ + 60°C	
Overload, Phase loss protection		yes (according to IEC60947-4-1)		yes (according to IEC60947-4-1)	
Trip Indicator		Yes		Yes	
Test Trip Function		Yes		Yes	
Instantaneous release		13 X Ie max.		13 X Ie max.	
Terminal type		Screw terminal, M4 slotted		Screw terminal, M4 slotted	
Wire size	Solid/Stranded	1-10mm ² x 1 / 18-8 AWG X 1		1-10mm ² x 1 / 18-8 AWG X 1	
	Without/With end sleeve	1-6mm ² x 2 / 18-10 AWG X 2		1-6mm ² x 2 / 18-10 AWG X 2	
Product weight (Kg)		0.35		0.35	
Dimensions (mm) W x H x D		45 x 90 x 66		45 x 90 x 66	
Standard service condition	Relative humidity	45 ~ 85%RH	No dew formation or freezing due	45 ~ 85%RH	No dew formation or freezing due
	Operation altitude	Up to 2000m	to rapid temperature change allowed	Up to 2000m	to rapid temperature change allowed
	Atmosphere	Atmosphere having no excess Vapour, Steam, Dust,		Atmosphere having no excess Vapour, Steam, Dust,	
		Corrosive gas, Salt, Flammable gas		Corrosive gas, Salt, Flammable gas	