DATASHEET - PDE33F0400B1NS

Circuit breaker, ETU, 400A, 25kA, 3p, screw terminal

Part no. **PDE33F0400B1NS**
PDE33F0400B1NS

Powering Business Worldwide™

General specifications

Product name	Eaton Moeller series Power Defense molded case circuit-breaker
Part no.	PDE33F0400B1NS
EAN	9010238104983
Product Length/Depth	257 millimetre
Product height	138 millimetre
Product width	138 millimetre
Product weight	6 kilogram
Compliances	RoHS conform
Certifications	IEC IEC/EN 60947
Product Tradename	Power Defense
Product Type	Molded case circuit breaker
Product Sub Type	None

Delivery program

Type	Circuit breaker
Circuit breaker frame type	PDE3
Number of poles	Three-pole
Amperage Rating	400 A
Release system	Electronic release
Features	Protection unit Motor drive optional
Special features	PXR 10 electronics

Technical Data - Electrical

Voltage rating	220 V - 440 V
Voltage rating (DC)	250 V
Rated insulation voltage (Ui)	800 V AC
Rated impulse withstand voltage (Uimp) at auxiliary contacts	4000 V
Rated impulse withstand voltage (Uimp) at main contacts	8000 V
Rated current (Iu)	400 A
Instantaneous current setting (Ii) - min	800 A
Instantaneous current setting (Ii) - max	7200 A
Overload current setting (Ir) - min	100 A
Overload current setting (Ir) - max	400 A
Short delay current setting (Isd) - min	0 A
Short delay current setting (Isd) - max	0 A
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 230 V, 50/60 Hz	35 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 400/415 V, 50/60 Hz	25 kA
Rated short-circuit breaking capacity Ics (IEC/EN 60947) at 440 V, 50/60 Hz	15 kA
Electrical connection type of main circuit	Screw connection
Number of operations per hour - max	60
Handle type	Rocker lever
Utilization category	A
Overvoltage category	III
Pollution degree	3
Direction of incoming supply	Vertical and 90° in all directions

Technical Data - Mechanical

Mounting Method	Fixed Complete device in housing DIN rail (top hat rail) mounting optional

Degree of protection		IP2X
Number of auxiliary contacts (change-over contacts)		0
Number of auxiliary contacts (normally closed contacts)		0
Number of auxiliary contacts (normally open contacts)		0
Position of connection for main current circuit		Front side
Special features		PXR 10 electronics
Lifespan, mechanical		15000 operations
Technical Data - Mechanical - Terminals		
Standard terminals		Screw terminal
Design verification as per IEC/EN 61439 - technical data		
Rated operational current for specified heat dissipation (In)		400 A
Ambient operating temperature - min		-20 °C
Ambient operating temperature - max		70 °C
Ambient storage temperature - min		-20 °C
Ambient storage temperature - max		70 °C
Additional information		
Functions		System and cable protection

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss10.0.1-27-37-04-09 [AJZ716013])

Rated permanent current Iu	A	400
Rated voltage	V	220 - 440
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	25
Overload release current setting	A	100 - 400
Adjustment range short-term delayed short-circuit release	A	0 - 0
Adjustment range undelayed short-circuit release	A	800 - 7200
Integrated earth fault protection		No
Type of electrical connection of main circuit		Screw connection
Device construction		Complete device in housing
Suitable for DIN rail (top hat rail) mounting		No
DIN rail (top hat rail) mounting optional		Yes
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
With switched-off indicator		No
With integrated under voltage release		No
Number of poles		3
Position of connection for main current circuit		Front side
Type of control element		Rocker lever
Complete device with protection unit		Yes
Motor drive integrated		No
Motor drive optional		Yes
Degree of protection (IP)		IP2X