



Circuit breaker, 50A, 36kA, 3p, box terminal

Part no. PDE13G0050TAAJ
 Catalog No. PDE13G0050TAAJ

Delivery program

Product range			Circuit-breaker
Protective function			System and cable protection
Standard/Approval			IEC
Installation type			Fixed
Release system			Thermomagnetic release
Construction size			PDE1
Description			thermally adjustable, magnetically adjustable; calibrated at 40°C
Number of poles			3 pole
Standard equipment			Box terminal
Switching capacity			
400/415 V 50 Hz	I_{cu}	kA	36

Technical data

General

Standards			IEC/EN 60947
Ambient temperature			
Ambient temperature, storage		°C	- 20 - + 70
Operation		°C	-20 - +70
Direction of incoming supply			Vertical and 90° in all directions
Degree of protection			
Device			IP2X with finger guard accessories

Circuit-breakers

Rated current = rated uninterrupted current	$I_n = I_u$	A	50
Rated surge voltage invariability	U_{imp}		
Main contacts		V	6000
Auxiliary contacts		V	6000
Rated operational voltage	U_e	V AC	440
Rated operational voltage	U_e	V DC	250
Overvoltage category/pollution degree			III/3
Rated insulation voltage	U_i	V	800

Switching capacity

Rated short-circuit breaking capacity I_{cn}	I_{cn}		
I_{cu} to IEC/EN 60947 test cycle O-t-CO	I_{cu}	kA	
240 V 50/60 Hz	I_{cu}	kA	50
400/415 V 50 Hz	I_{cu}	kA	36
440 V 50/60 Hz	I_{cu}	kA	30
I_{cs} to IEC/EN 60947 test cycle O-t-CO-t-CO	I_{cs}	kA	
230 V 50/60 Hz	I_{cs}	kA	50
400/415 V 50/60 Hz	I_{cs}	kA	36
440 V 50/60 Hz	I_{cs}	kA	22.5
Utilization category to IEC/EN 60947-2			A
Lifespan, mechanical	Operations		25000
Lifespan, electrical			
Max. operating frequency		Ops/h	120

Terminal capacity

Standard equipment			Box terminal
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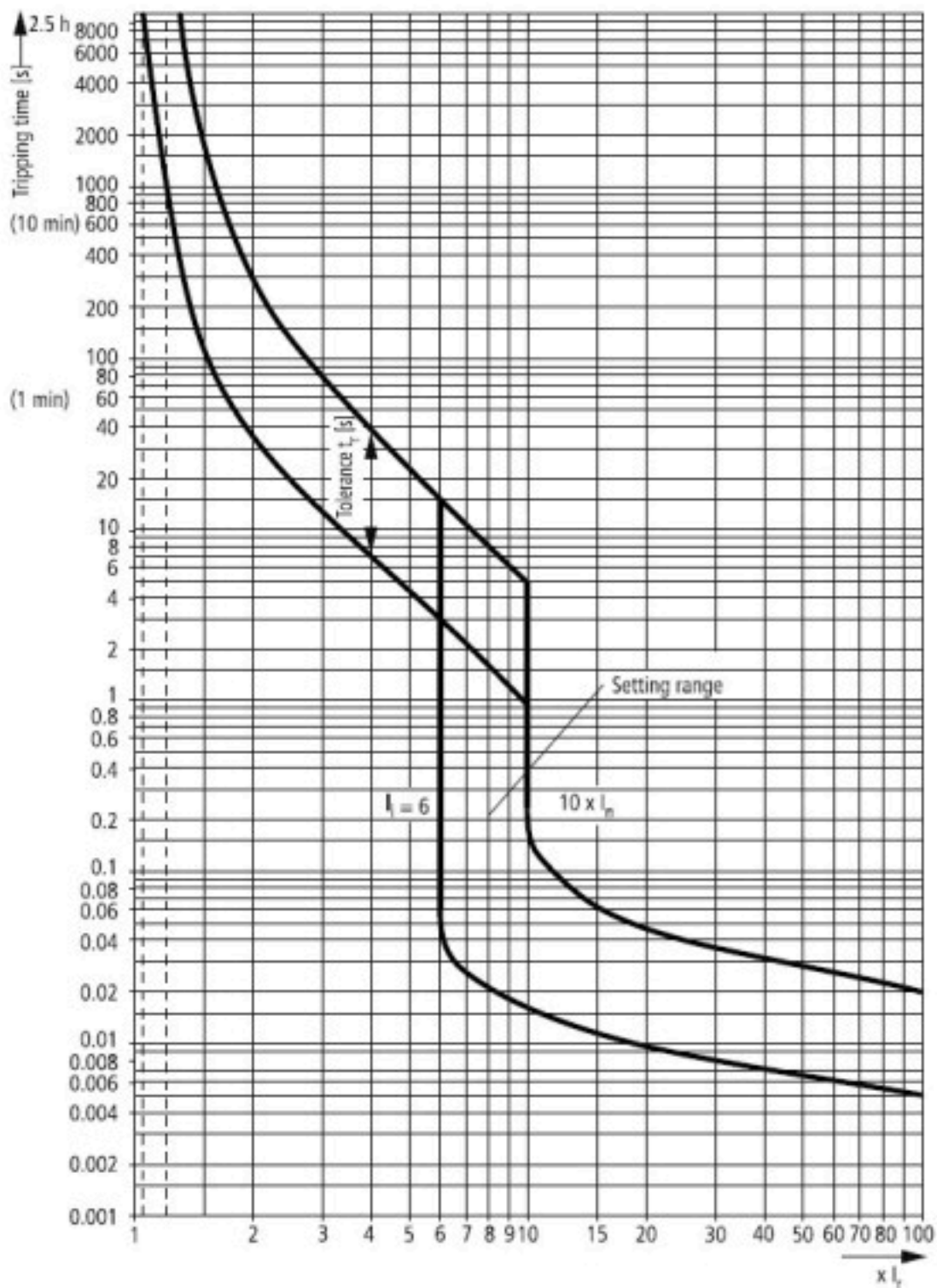
Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-20
Operating ambient temperature max.		°C	70

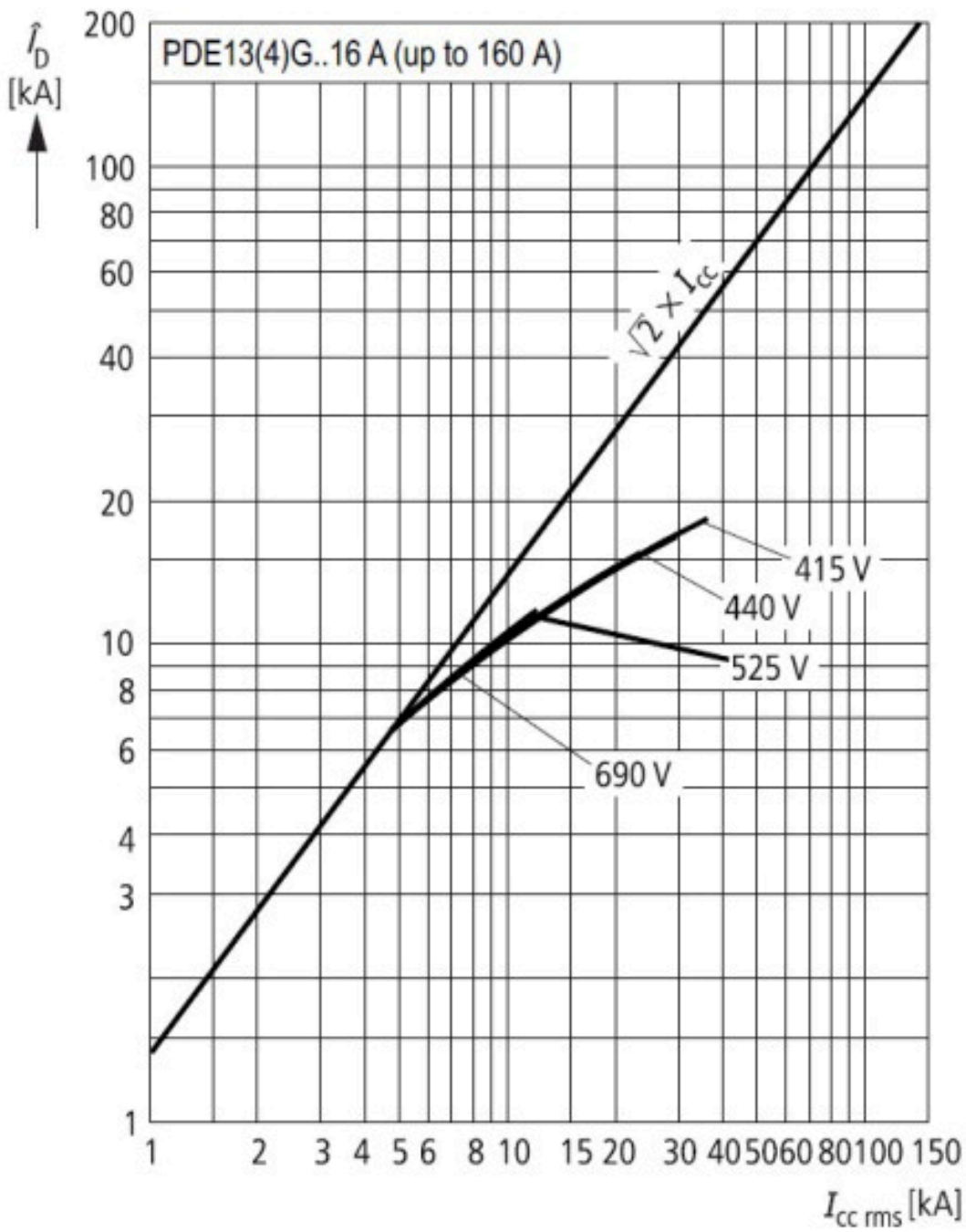
Technical data ETIM 7.0

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 I _u		A	50
Rated voltage		V	220 - 440
Rated short-circuit breaking capacity I _{cu} at 400 V, 50 Hz		kA	36
Overload release current setting		A	40 - 50
Adjustment range short-term delayed short-circuit release		A	0 - 0
Adjustment range undelayed short-circuit release		A	500 - 500
Integrated earth fault protection			No
Type of electrical connection of main circuit			Frame clamp
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 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			No
Degree of protection (IP)			IP2X

Characteristics

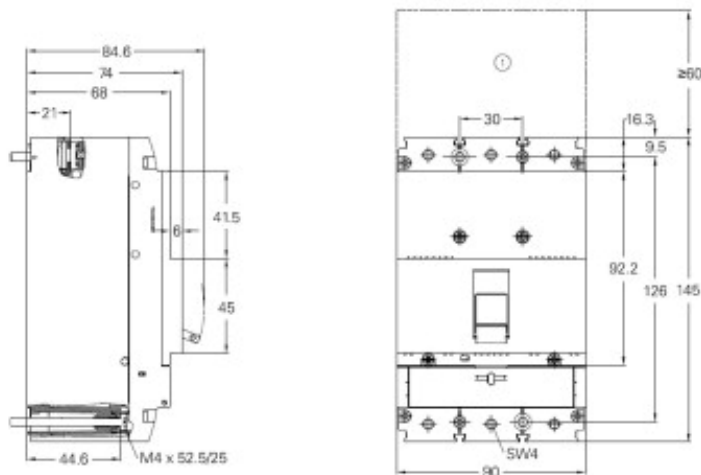


Characteristic curve



Let-through current characteristic curve

Dimensions



① Blow-out area, minimum distance to other parts ≥ 60 mm

