TYPE			SM1P...	SM1R...	SM2R...	SM3R...
Rated insulation voltage Ui		V	690		1000	
Rated impulse withstand voltage		kV	6			
Rated frequency: 50/60Hz						
Maximum rated current		A	40	40	63	100
Number of adjustment ranges		No.	16	16	2	3
Total power dissipation at maximum current		W	5…15	5…15	7.1...20	10...38
Magnetic tripping		A	13 x In❶	13 x In	13 x In	13 x In
Mechanical life		cycles	100,000	100,000	50,000	50,000
Electrical life (Ie max AC3)		cycles	100,000	100,000	25,000	25,000
Terminal tightening torque		Nm	2.5...3	2.5...3	4.5	6
		lbft	1.8...2.2	1.8...2.2	40	53
		Tool	PH2	PH2	PZ2	Allen 4mm
Conductor section minimum and maximum (1 or 2 wires)	AWG	No.	16…8	16…8	18...3	10...1/0
Flexible without lug		mm^2	1…10	1…10	0.75...25	10...50
AMBIENT CONDITIONS						
Temperature	operating	°C	-20...+60❷	-20...+60❷	-20...+70❷	-20...+70❷
	storage	°C	-50...+80	-50...+80	-50...+80	-50...+80
	compensation	°C	-20...+50	-20...+50	-5...+40	-5...+40
Maximum altitude		m	3000			
Mounting position			Any			
Fixing			On 35mm DIN rail or screw via accessory		On 35mm DIN rail or screw	

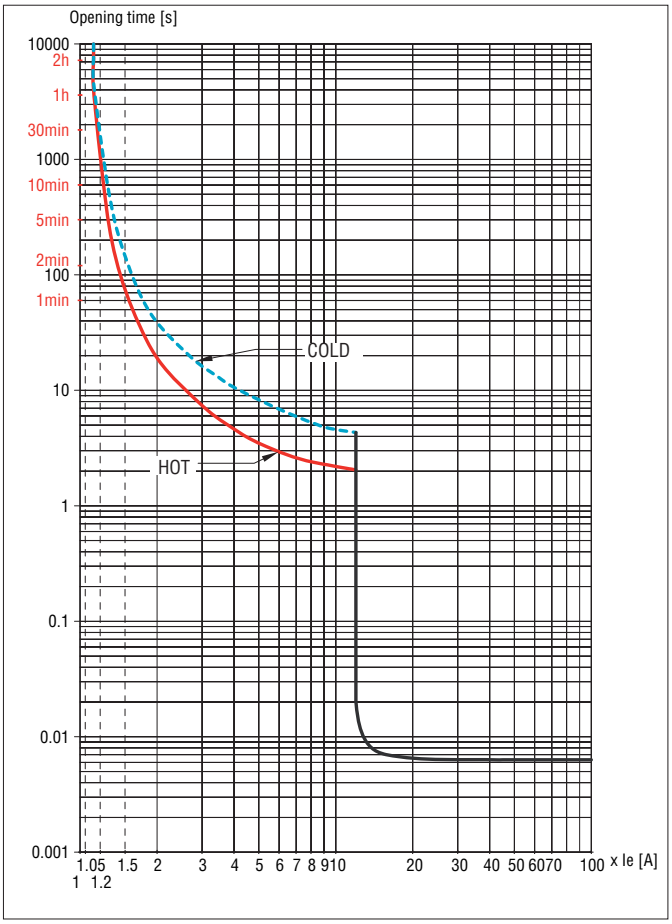
E.g. PH = Phillips; PZ = Pozidriv; Allen is metric type.

❶ SM1PF00 20 has a single 0.2A thermal adjustment and magnetic tripping at 6 x In (1.2A).

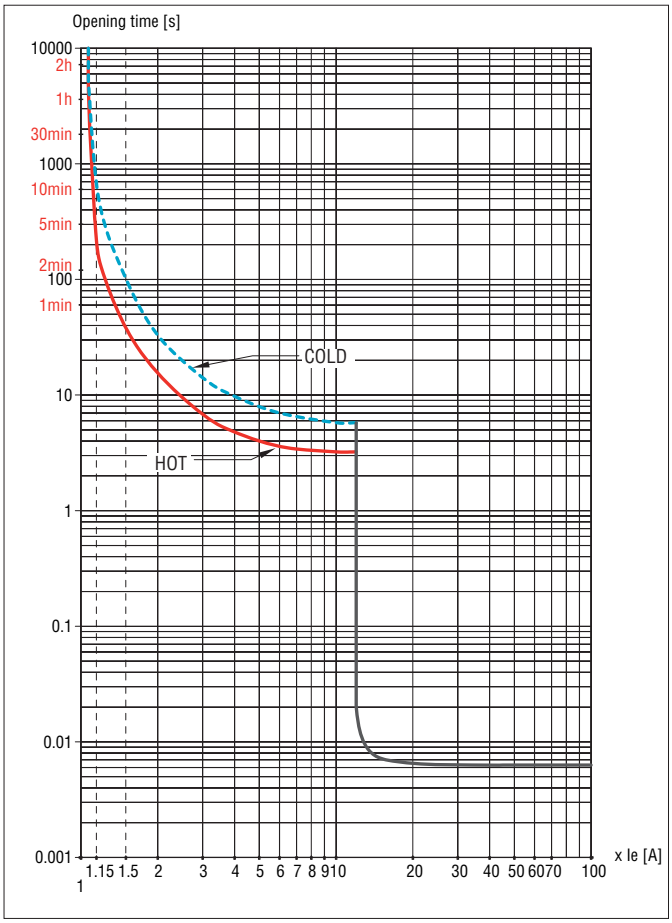
❷ When fitting more than one breaker side by side, without leaving space between each to consent free air circulation on the breaker sides, and have simultaneous operation, the thermal trip adjuster must be positioned at a value 15% higher than the rated motor current.

THERMAL TRIPPING CURVE (AVERAGE TIMES)

Three-phase balanced operation



Two-phase operation (phase failure/single phasing)



Tripping times can have a ±20% deviation with respect to the average tripping curve value above.