



**LOVATO MOTOR PROTECTION CIRCUIT BREAKER, IEC BREAKING CAPACITY  
ICU 100KA AT 400V, 4...6.5A**

Product designation	SM1P
Product type designation	Motor protective circuit breaker
Electrical features	
Number of poles nr.	3
Magnetic protection	Yes
Thermal protection	Yes
Phase failure detection	Yes
Rated insulation voltage $U_i$	V 690
Rated impulse withstand voltage $U_{imp}$	kV 6
Rated frequency	Hz 50/60
Thermal trip adjustment range	4...6,5
Rated current ( $I_n$ )	A 7

Magnetic tripping 13 x In

Operational short-circuit current breaking capacity (Ics) at AC

230V	kA	100
400V	kA	100
440V	kA	100
500V	kA	100
690V	kA	3

Maximum short-circuit current breaking capacity (Icu) at AC

230V	kA	100
400V	kA	100
440V	kA	100
500V	kA	100
690V	kA	3

Operations

Mechanical life Cycles 100,000

Electrical life Cycles 100,000

Mechanical features

Tightening torque for terminals

min	Nm	3
max	Nm	3
min	Ibft	2
max	Ibft	2

max number of wires simultaneously connectable nr. 2

Conductor section

AWG

min	16
max	8

Flexible w/o lug conductor section

min	mm <sup>2</sup>	1
max	mm <sup>2</sup>	10

Flexible c/w lug conductor section

min	mm <sup>2</sup>	1
max	mm <sup>2</sup>	10

Flexible with insulated spade lug conductor section

min	mm <sup>2</sup>	1
max	mm <sup>2</sup>	10

Screwdriver PH2

Power terminal protection according to IEC/EN 60529		IP20
Cable stripping length		
main circuit mm	1	
Ambient conditions		
Temperature		
Operating temperature		
min       °C	-20	
max       °C	60	
Storage temperature		
min       °C	-50	
max       °C	80	
Compensation temperature		
min       °C	-20	
max       °C	50	
Max altitude	m	3,000
Operating position		
normal		Su piano verticale
allowable		Qualsiasi A vite / profilato omega 35mm
Mounting		
Weight	g	350
UL technical data		
Motor Disconnect		
at 240V	kA	30
at 480V	kA	30
at 600V	kA	30
protection		100A class J
Group Motor Installation		
at 240V	kA	30
at 480V	kA	30
at 600V	kA	30
protection		100A class J
Tap Conductor Protection		
at 480Y/277V	kA	50
at 600Y/347V	kA	50

UL508 / UL 60947-4-1 Manual Self  
Protected Combination Motor  
Controller (Type E) Short circuit  
current

at 240V kA 50

at  
480Y/277V kA 50

at  
600Y/347V kA 50

Maximum UL/CSA horsepower  
ratings single-phase

at 110V-  
120V hp 1

at 220V-  
240V hp 2

Maximum UL/CSA horsepower  
ratings three-phase, 3-pole

at 200V-  
208V hp 3

at 220V-  
240V hp 3

at 440V-  
480V hp 10

at 550V-  
600V hp -

Pret: 183,63 LEI (TVA inclus)

Detalii online: <https://www.materialelectrice.ro/motor-protection-circuit-breaker-iec-breaking-capacity-icu-100ka-at-400v-4-6-5a-120329>