



Product designation Power contactor  
Product type designation B250

**Contact characteristics**

Number of poles	Nr.	3
Rated insulation voltage $U_i$ IEC/EN	V	1000
Rated impulse withstand voltage $U_{imp}$	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current $I_{th}$	A	350
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 350
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 300
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 250
	AC-3 ( $\leq 440\text{V} \leq 55^\circ\text{C}$ )	A 265
	AC-4 (400V)	A 115
Rated operational power AC-3 ( $T \leq 55^\circ\text{C}$ )	230V	kW 83
	400V	kW 140
	415V	kW 155
	440V	kW 164
	500V	kW 176
	690V	kW 212
	1000V	kW 156
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW 124
	400V	kW 214
	500V	kW 282
	690V	kW 380
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	75V	A 350
	110V	A 160
	220V	A --
	330V	A --
	460V	A --
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series	75V	A 350
	110V	A 300
	220V	A 250
	330V	A --
	460V	A --
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series	75V	A 350
	110V	A 300
	220V	A 300

	330V	A	250
	460V	A	--
IEC max current I <sub>e</sub> in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	A	350
	110V	A	300
	220V	A	300
	330V	A	300
	460V	A	250
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	A	280
	110V	A	150
	220V	A	--
	330V	A	--
	460V	A	--
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	A	280
	110V	A	250
	220V	A	200
	330V	A	--
	460V	A	--
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	A	280
	110V	A	280
	220V	A	250
	330V	A	200
	460V	A	--
IEC max current I <sub>e</sub> in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	A	280
	110V	A	280
	220V	A	280
	330V	A	200
	460V	A	200
Short-time allowable current for 10s (IEC/EN60947-1)		A	2200
Protection fuse			
	gG (IEC)	A	400
	aM (IEC)	A	250
Making capacity (RMS value)		A	2750
Breaking capacity at voltage			
	440V	A	2500
	500V	A	2250
	690V	A	2200
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)			
	I <sub>th</sub>	W	24.5
	AC-3	W	12.5
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	I <sub>bin</sub>	25.8
	max	I <sub>bin</sub>	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1

	min	I <sub>bin</sub>	0.74
	max	I <sub>bin</sub>	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
		AWG/Kcmil	
		max	500 kcmil
Power terminal protection according to IEC/EN 60529			IP00
<b>Mechanical features</b>			
Operating position			
		normal allowable	Vertical plan ±30°
Fixing			Screw
Weight		g	9115
<b>Operations</b>			
Mechanical life		cycles	10000000
Electrical life		cycles	1000000
<b>Safety related data</b>			
Performance level B10d according to EN/ISO 13489-1			
		rated load	cycles
		mechanical load	cycles
			1000000
			10000000
Mirror contacts according to IEC/EN 60947-4-1			Yes
EMC compatibility			yes
<b>AC coil operating</b>			
Rated AC voltage at 50/60Hz		V	60
AC operating voltage			
			of 50/60Hz coil powered at 50Hz
			pick-up
	min	%U <sub>s</sub>	80
	max	%U <sub>s</sub>	110
			drop-out
	min	%U <sub>s</sub>	20
	max	%U <sub>s</sub>	60
			of 50/60Hz coil powered at 60Hz
			pick-up
	min	%U <sub>s</sub>	80
	max	%U <sub>s</sub>	110
			drop-out
	min	%U <sub>s</sub>	20
	max	%U <sub>s</sub>	60
			of 60Hz coil powered at 60Hz
			pick-up
	min	%U <sub>s</sub>	80
	max	%U <sub>s</sub>	110
			drop-out
	min	%U <sub>s</sub>	20
	max	%U <sub>s</sub>	60
AC average coil consumption at 20°C			
			of 50/60Hz coil powered at 50Hz
		in-rush	VA
		holding	VA
			300
			10
			of 50/60Hz coil powered at 60Hz
		in-rush	VA
		holding	VA
			300
			10

Dissipation at holding $\leq 20^{\circ}\text{C}$ 50Hz		W	10
<b>DC coil operating</b>			
DC rated control voltage		V	60
DC operating voltage			
pick-up	min	%Us	80
	max	%Us	110
drop-out	min	%Us	20
	max	%Us	60
Average coil consumption $\leq 20^{\circ}\text{C}$		in-rush	W 300
		holding	W 10
<b>Max cycles frequency</b>			
Mechanical operation		cycles/h	2400
<b>Operating times</b>			
Average time for Us control			
in AC			
Closing NO		min	ms 80
		max	ms 120
Opening NO		min	ms 30
		max	ms 75
in DC			
Closing NO		min	ms 80
		max	ms 120
Opening NO		min	ms 30
		max	ms 75
<b>UL technical data</b>			
Rated operational voltage AC (UL)		V	600
Full-load current (FLA) for three-phase AC motor			
		at 480V	A 240
		at 600V	A 242
Yielded mechanical performance			
for three-phase AC motor			
		200/208V	HP 75
		220/230V	HP 100
		575/600V	HP 250
General USE			
Contactor		AC current	A 350
Short-circuit protection fuse, 600V			
Standard fault		Short circuit current	kA 18
		Fuse rating	A 800
		Fuse class	L
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
		min	$^{\circ}\text{C}$ -50
		max	$^{\circ}\text{C}$ 70

Storage temperature

min	°C	-60
max	°C	80

Max altitude

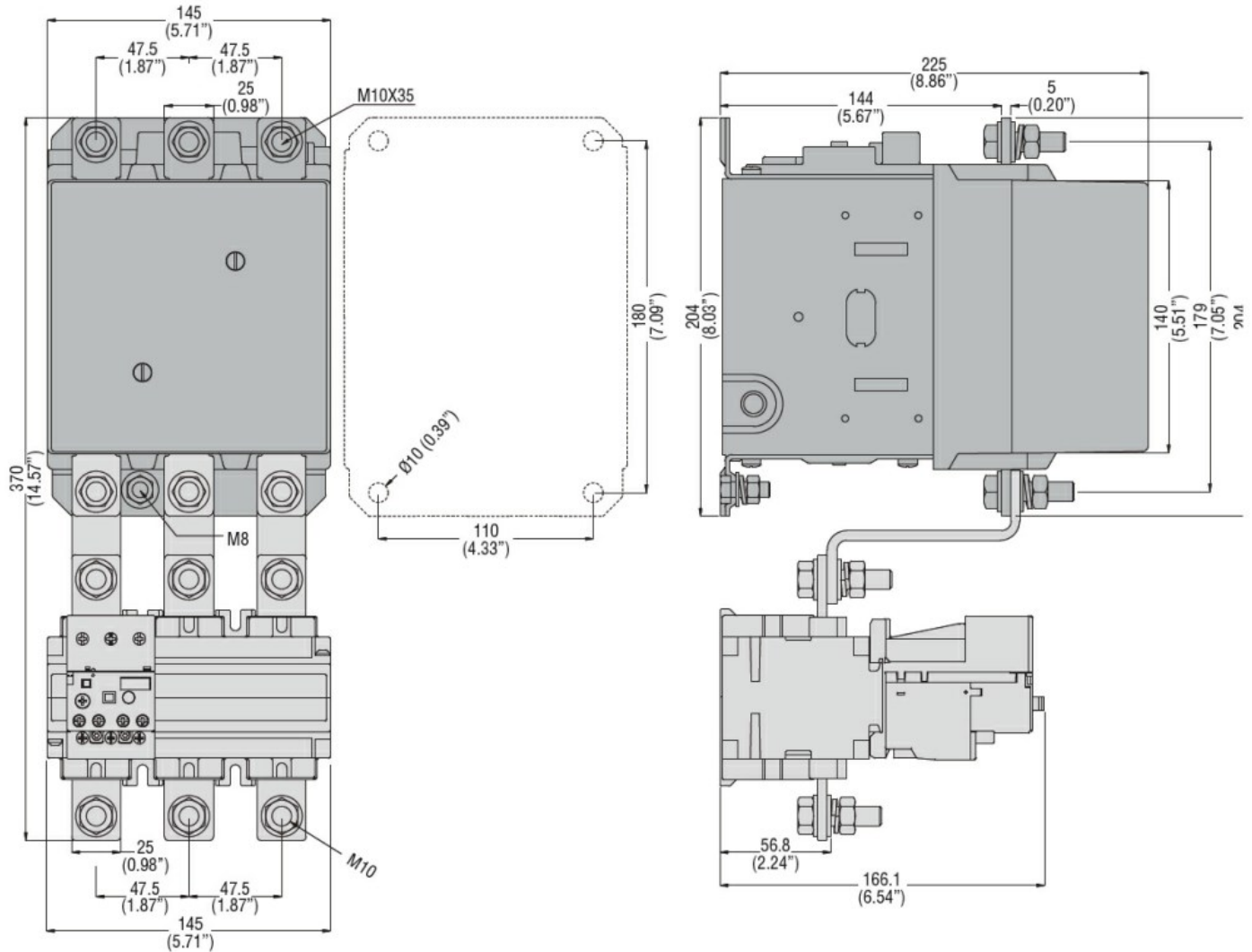
m	3000
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**Resistance & Protection**

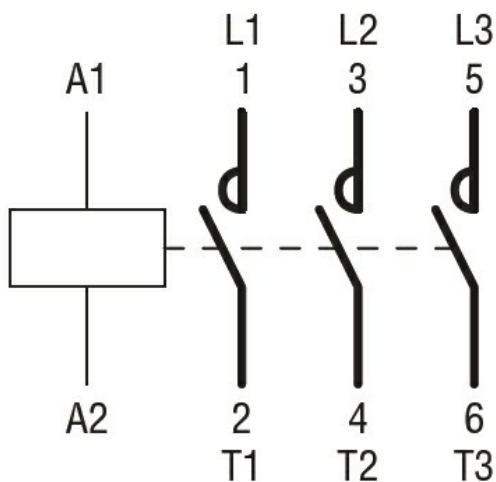
Pollution degree

3

**Dimensions**



**Wiring diagrams**



**Certifications and compliance**

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates

CCC

cULus

EAC

**ETIM classification**

ETIM 8.0

EC000066 -  
Power contactor,  
AC switching