



Product designation

Power contactor

Product type designation

B400

**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	550
Operational current $I_e$	AC-1 ( $\leq 40^\circ\text{C}$ )	A 550
	AC-1 ( $\leq 55^\circ\text{C}$ )	A 430
	AC-1 ( $\leq 70^\circ\text{C}$ )	A 360
	AC-3 ( $\leq 440\text{V } \leq 55^\circ\text{C}$ )	A 420
	AC-4 (400V)	A 200
Rated operational power AC-3 ( $T \leq 55^\circ\text{C}$ )	400V	kW 225
Rated operational power AC-1 ( $T \leq 40^\circ\text{C}$ )	230V	kW 200
	400V	kW 345
	500V	kW 452
	690V	kW 598
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series	75V	A 400
	110V	A 250
	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 400
	110V	A 400
	220V	A 350
	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 400
	110V	A 400
	220V	A 400
	330V	A 350
	460V	A --
IEC max current $I_e$ in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series	75V	A 400
	110V	A 400
	220V	A 400

	330V	A	400
	460V	A	350
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	A	350
	110V	A	200
	220V	A	--
	330V	A	--
	460V	A	--
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	A	350
	110V	A	350
	220V	A	280
	330V	A	--
	460V	A	--
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	A	350
	110V	A	350
	220V	A	350
	330V	A	280
	460V	A	--
IEC max current Ie in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	A	350
	110V	A	350
	220V	A	350
	330V	A	280
	460V	A	280
Short-time allowable current for 10s (IEC/EN60947-1)		A	3600
Protection fuse			
	gG (IEC)	A	630
	aM (IEC)	A	400
Making capacity (RMS value)		A	4200
Breaking capacity at voltage			
	440V	A	4000
	500V	A	3400
	690V	A	3360
Resistance per pole (average value)		mΩ	0.2
Power dissipation per pole (average value)			
	Ith	W	52
	AC-3	W	32
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	Ibin	25.8
	max	Ibin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
	AWG/Kcmil		
	max		2x 300 kcmil

Power terminal protection according to IEC/EN 60529			IP00	
Mechanical features				
Operating position			normal allowable	Vertical plan ±30°
Fixing			Screw	
Weight			g	1024
Conductor section			AWG/kcmil conductor section	
			max	2x 300 kcmil
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	700000
Safety related data				
Performance level B10d according to EN/ISO 13489-1			rated load mechanical load	cycles cycles 700000 10000000
Mirror contats according to IEC/EN 60947-4-1			yes	
EMC compatibility			yes	
AC coil operating				
Rated AC voltage at 50/60Hz, 60Hz			min max	V V 110 125
AC operating voltage			of 50/60Hz coil powered at 50Hz	
			pick-up	min max %Us %Us 80 110
			drop-out	min max %Us %Us 20 60
of 50/60Hz coil powered at 60Hz			pick-up	
			min max	%Us %Us 80 110
			drop-out	min max %Us %Us 20 60
of 60Hz coil powered at 60Hz			pick-up	
			min max	%Us %Us 80 110
			drop-out	min max %Us %Us 20 60
AC average coil consumption at 20°C			of 50/60Hz coil powered at 50Hz	
			in-rush holding	VA VA 300 10
of 50/60Hz coil powered at 60Hz			in-rush holding	
			VA VA	300 10
Dissipation at holding ≤20°C 50Hz			W	10

### DC coil operating

DC rated control voltage

min	V	110
max	V	125

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

### Max cycles frequency

Mechanical operation

cycles/h 2400

### Operating times

Average time for  $U_s$  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

### UL technical data

Full-load current (FLA) for three-phase AC motor

at 480V	A	414
at 600V	A	382

Yielded mechanical performance

for three-phase AC motor

200/208V	HP	125
220/230V	HP	150
460/480V	HP	350
575/600V	HP	400

General USE

Contactor

AC current	A	550
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Short-circuit protection fuse, 600V

Standard fault

Short circuit current	kA	18
Fuse rating	A	800
Fuse class	L	

### Ambient conditions

Temperature

Operating temperature

min	$^{\circ}\text{C}$	-50
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Storage temperature

max °C 70

min °C -60

max °C 80  
m 3000

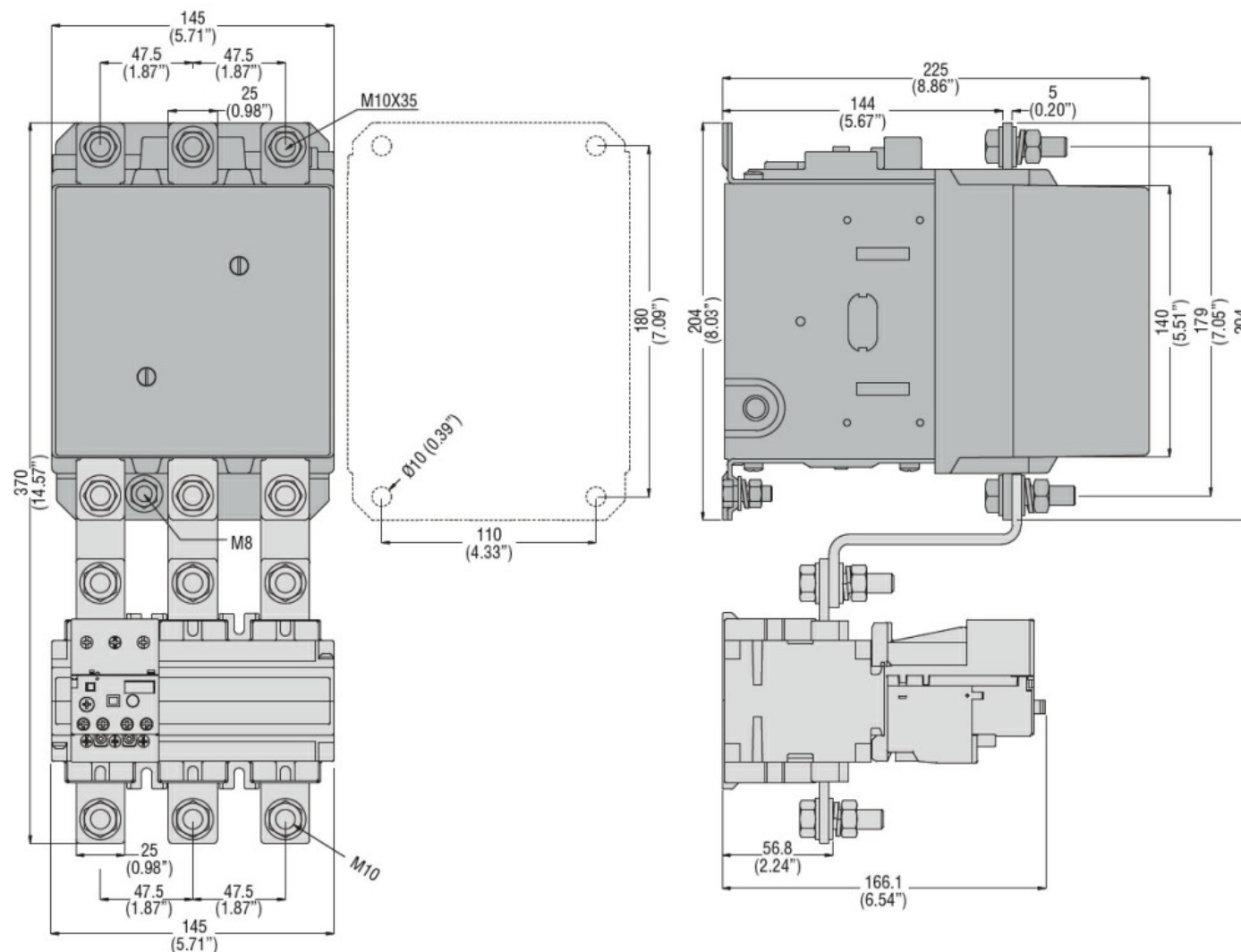
Max altitude

Resistance & Protection

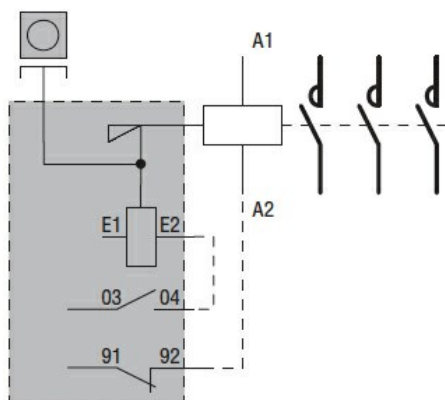
Pollution degree

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