



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

	330V	A	400
	460V	A	350
IEC max current le 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 le 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 le 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 le 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)			m? 0.2
Power dissipation per pole (average value)			
	I _{th}	W	52
	AC3	W	32
Tightening torque for terminals			
	min	Nm	35
	max	Nm	35
	min	lbin	25.8
	max	lbin	25.8
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	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	1018			
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	700000 10000000			
Mirror contacts according to IEC/EN 609474-4-1		yes				
EMC compatibility		yes				
AC coil operating						
Rated AC voltage at 50/60Hz, 60Hz	min max	V V	220 240			
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	220
max	V	240

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 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

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

Short-circuit protection fuse, 600V

Standard fault

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

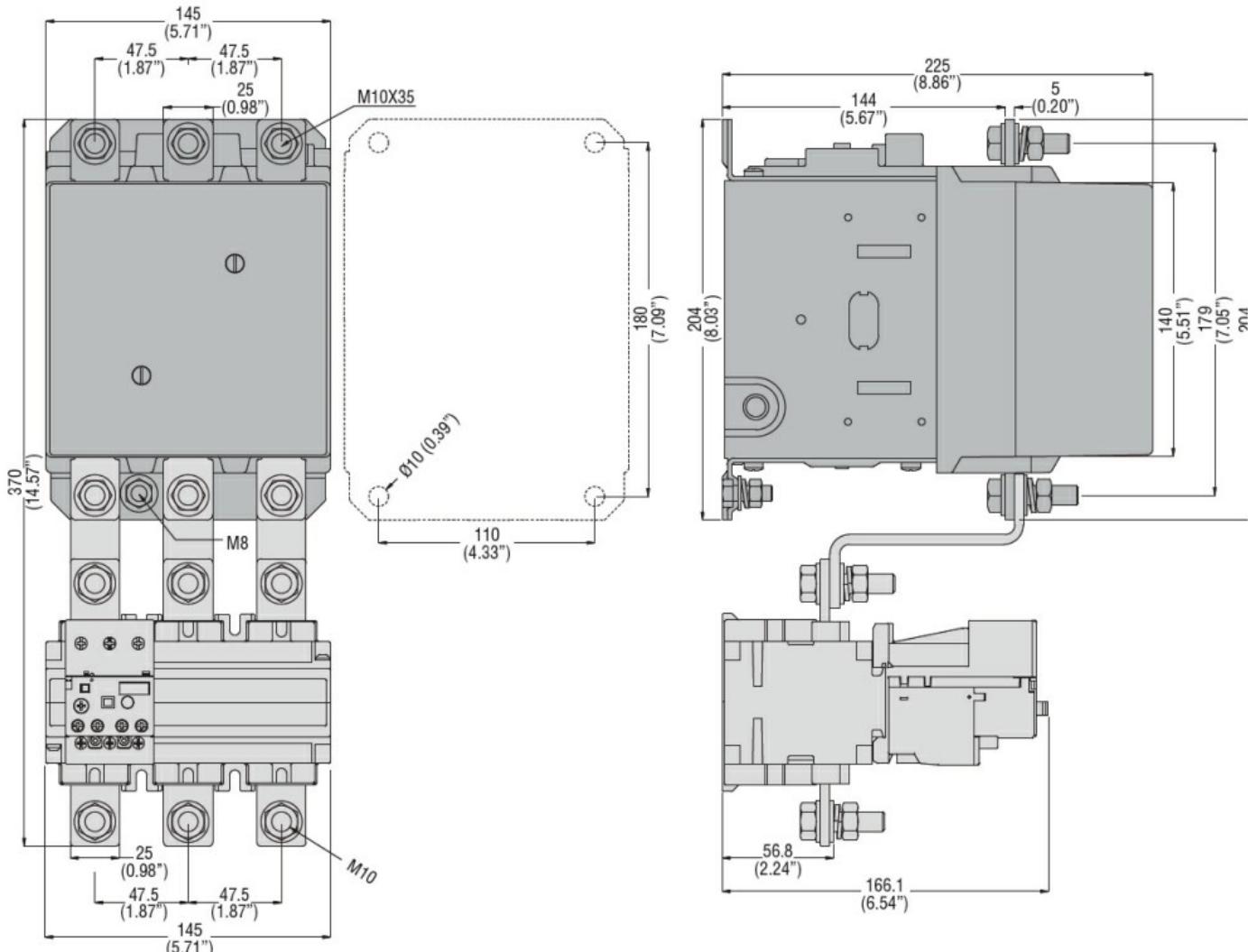
Ambient conditions

Temperature

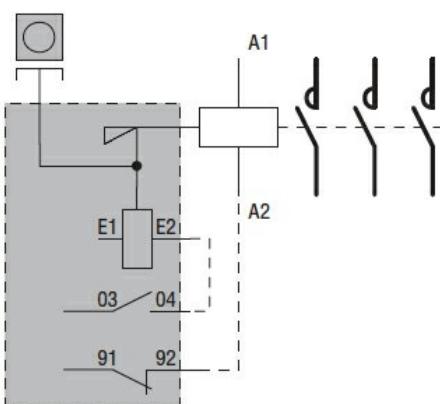
Operating temperature

min °C -50

	max	°C	70
Storage temperature			
min	°C	-60	
max	°C	80	
Max altitude	m	3000	
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