



Product designation

Power contactor

Product type designation

B400

Contact characteristics

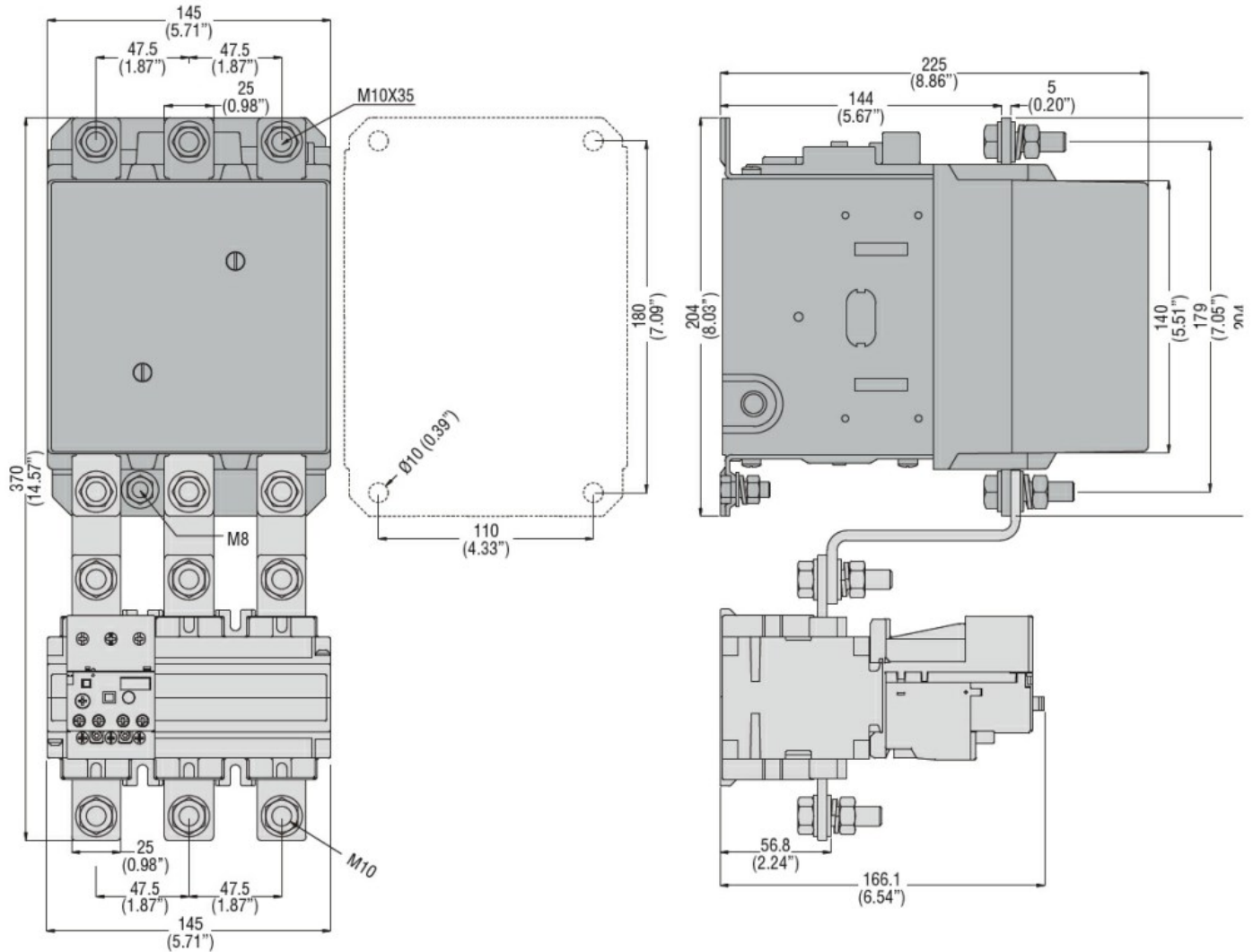
Number of poles	Nr.	3
Rated insulation voltage U_i IEC/EN	V	1000
Rated impulse withstand voltage U_{imp}	kV	8
Operational frequency	min	Hz 25
	max	Hz 400
IEC Conventional free air thermal current I_{th}	A	550
Operational current I_e	AC-1 ($\leq 40^\circ\text{C}$)	A 550
	AC-1 ($\leq 55^\circ\text{C}$)	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

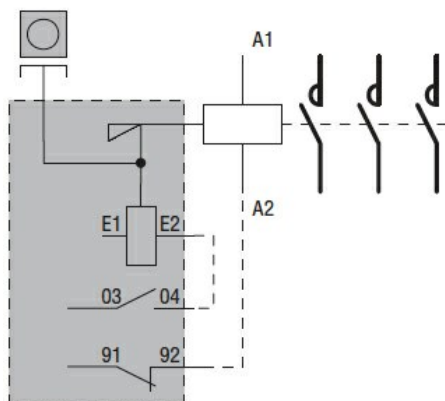
Power terminal protection according to IEC/EN 60529			IP00	
Mechanical features				
Operating position		normal allowable	Vertical plan ±30°	
Fixing		Screw		
Weight		g	1024	
Operations				
Mechanical life		cycles	10000000	
Electrical life		cycles	700000	
Safety related data				
Performance level B10d according to EN/ISO 13489-1		rated load mechanical load	cycles cycles	700000 10000000
Mirror contats according to IEC/EN 609474-4-1		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 ≤20°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				
Rated operational voltage AC (UL)			V	600
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