ABB BALDOR RELIANCE

Customer information packet

CECP4314T

60HP, 1780RPM, 3PH, 60HZ, 364TC, A3658M, TEFC
Class - None
Division - Division II

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Specifications

Enclosure	TEFC
Frame	364TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	10-60
Current @ Voltage	140.000 A @ 230.0 V
	152.000 A @ 208.0 V
	70.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4075
Layout	617428-136
Eff. date	02-13-2025
CD Diagram	CD0180
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	06-07-2019

High Voltage Full Load Amps	70.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3658M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.48 IN
Power Factor	84
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4033LUA

CAT #	CECP4314T			**SER**				**CC**	010A										
SPEC	A36-6175-4075			**RATING**	40C AMB-CONT														
HZ	**VOLTS**			**AMPS**			**RPM**	**HP**	**CODE**		**SF**	**DES**	**PF**		**NEMA NOM. EFF**				
60	230/460			140/70			1780	60	G		1.15	B	84	%	95	%			
														%		%			
PH	3	**CL**	F	**MAX RPM**	2700		**MAX CORR KVAR**	15											
BRG	**DE**	6313		**ODE**	6313		**ENCL**	TEFC		**FR**	364TC			**IP**	55				
GREASE	POLYREX EM									**MTR WT**	880	**LBS**							
		CL I DIV 2 GRPS A,B,C,D					**CL I ZONE 2 GRPS**				**IIA,IIB,IIC**			**TEMP T**	200	**C**			
INV READY	**CT**	15-60	**HZ**	4:1	**VT**	3-60	**HZ**	20:1	**CHP**	60-90	**HZ**	1.5:1							
INV TEMP CL	200	**C**	**USABLE AT**	50HZ 50HP 190/380V 138/69A							SF1.0								

AC induction motor performance data

Record #72794 - Typical performance - not guaranteed values

Winding	A36WG4075
Type	A3658M
Enclosure	TEFC

Nameplate data			
Rated Output			60
Volts			230/460
Full Load Amps			140/70
R.P.M.			1780
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	95	Power Factor	84
Duty			CONT
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection	
Full Load Torque	176.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	422 LB-FT
Pull-up Torque	276 LB-FT
Locked-rotor Torque	352 LB-FT
Starting Current	462 A
No-load Current	24.8
Line-line Res. @ 25°C	0.10816 Ω
Temp. Rise @ Rated Load	56°C
Temp. Rise @ S.F. Load	70°C
Locked-rotor Power Factor	32.3
Rotor inertia	0

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	4	51	73	81	84	86	85	85
Efficiency	0	92.6	95.1	95.4	95.2	94.6	93.8	94.8
Speed	1798.9	1796.4	1792.4	1788	1783.7	1778.3	1772.3	1780
Line amperes	24.8	29.7	40.7	54.4	69.7	86.6	105	79.8

ABB BALDOR RELIANCE III

CUSTOMER INFORMATION PACKET

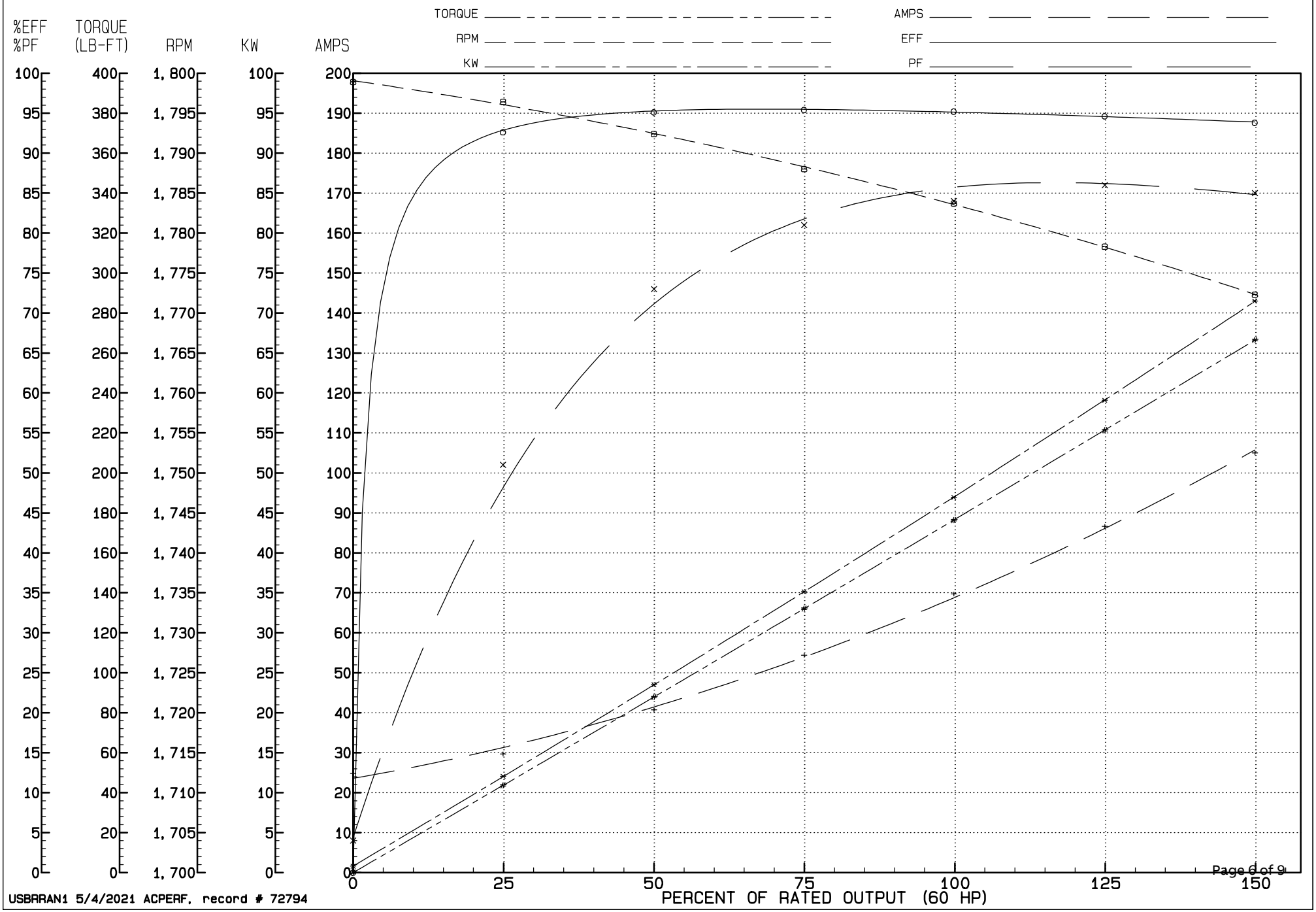
CECP4314T - 60HP, 1780RPM, 3PH, 60HZ, 364TC, A3658M, TEFC

WINDING # A36WG4075

REVIEW

60 HP 3 PH 60 HZ 1780 RPM 460 V A3658M

TORQUES (LB-FT): PO=422.00 PU=276.00 LR=352.00 LRA=462.00



USBRRAN1 5/4/2021 ACPERF, record # 72794

DUTY MASTER ALTERNATING CURRENT MOTORS

617428-136

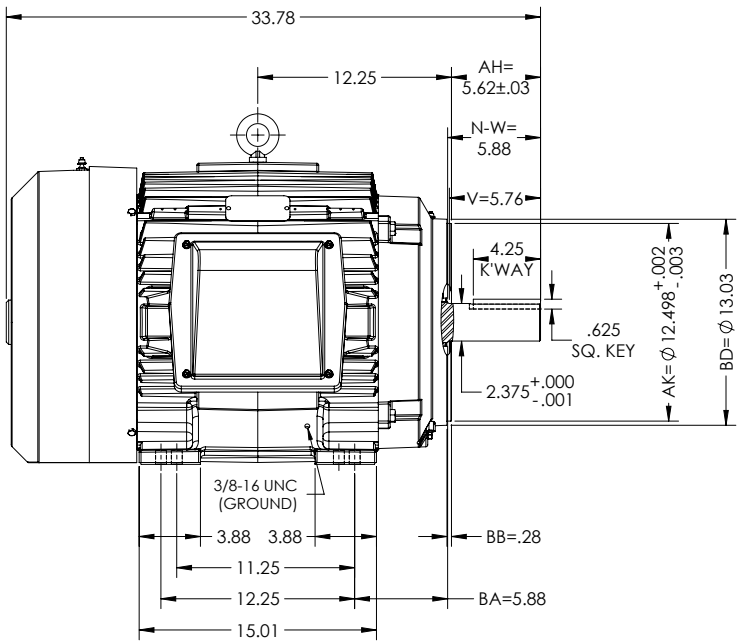
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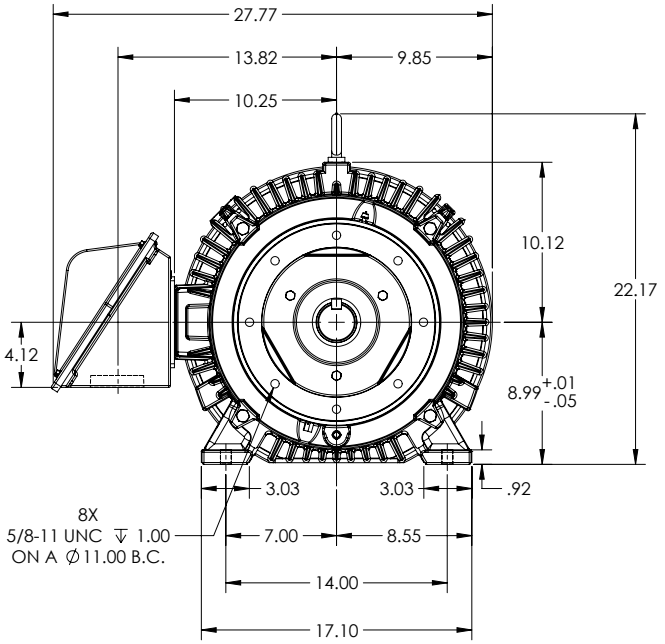
SQUIRREL-CAGE INDUCTION

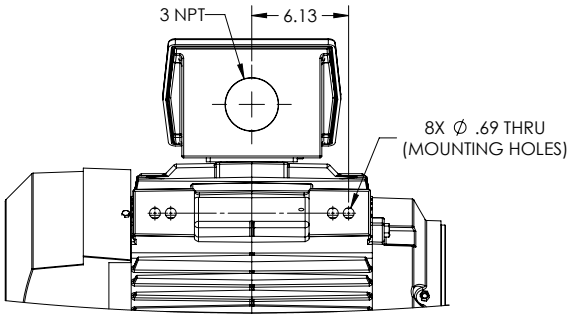
MOUNTING: FOOT, F-1 SIDE

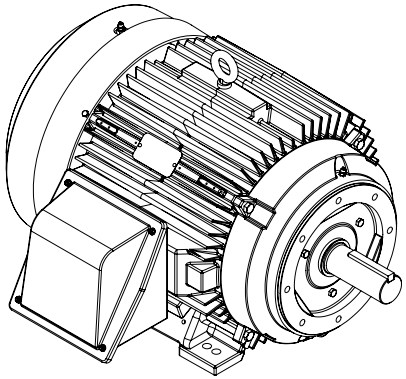
E365TC/E364TC MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN INCHES.
WEIGHT =900 LBS +/- 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 2

617428-136

FACE & ECCENTRICITY RUNOUT = .007 T.I.R. MAX.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: NEW DRW			
REV: C	VERSION: 03	REVISED: 10:20:38 10/07/2022	TDR: 000001197796
MODEL NO. 617428-136			
BY: USJEDIL			C

BALDOR

E365/364TC TEFC F1 FOOT/CAST IRON BOX

617428-136

DUTY MASTER ALTERNATING CURRENT MOTORS

617428-136

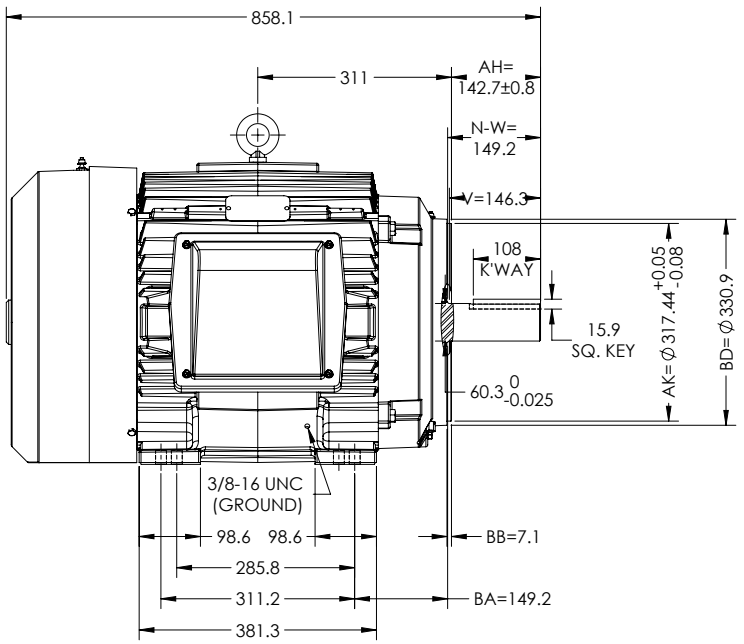
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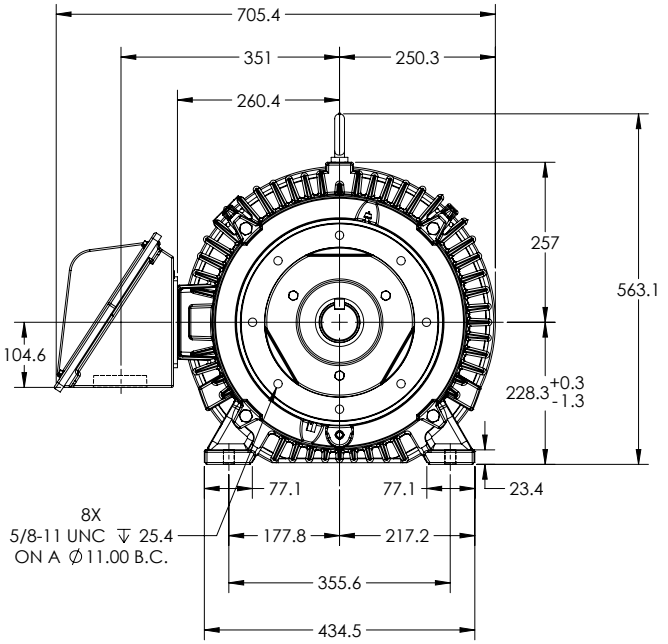
SQUIRREL-CAGE INDUCTION

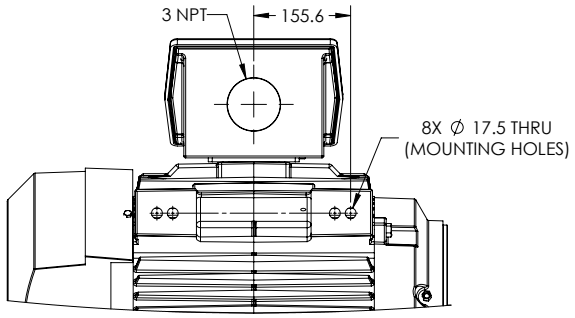
MOUNTING: FOOT, F-1 SIDE

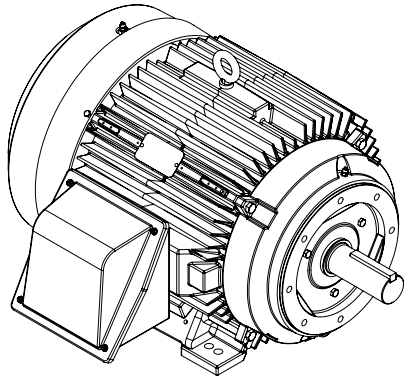
E365TC/E364TC MOUNTING HOLES

COOLING: FAN COOLED









DIMENSIONS ARE IN MILLIMETERS.
WEIGHT = 408 LBS +/- 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

FACE & ECCENTRICITY RUNOUT = .18 T.I.R. MAX.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

SHEET NUMBER 2 OF 2

617428-136

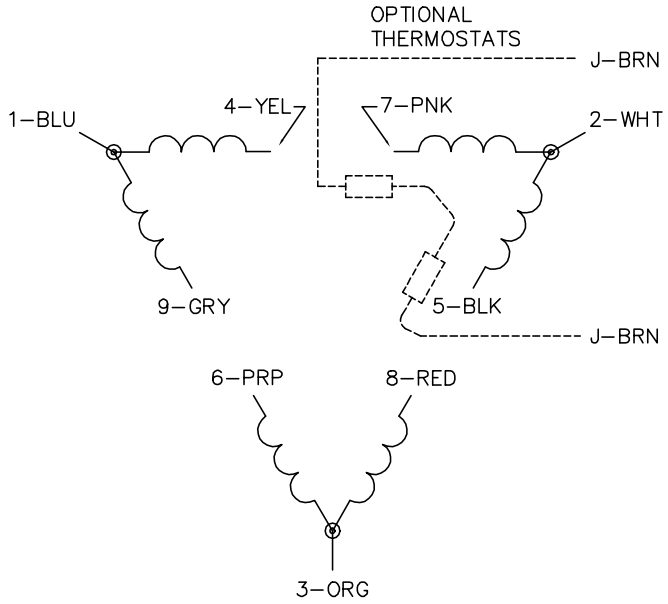
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REV: C	VERSION: 03	REVISED: 10:20:38 10/07/2022	TDR: 000001197796
MODEL NO. 617428-136			
BY: USJEDIL			C

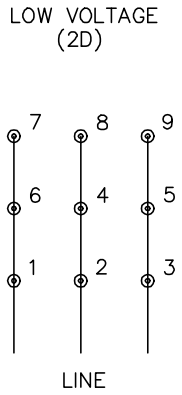
BALDOR

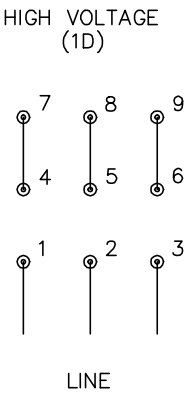
E365/364TC TEFC F1 FOOT/CAST IRON BOX

617428-136

CD0180







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1