

ABB BALDOR RELIANCE III

Customer information packet

CECP83664T-4

2HP, 1165RPM, 3PH, 60HZ, 182TC, 0642M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	1.8
Current @ Voltage	3.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	X
Type	AC
Mech. spec.	06J078
Base	
Status	PRD/A
Elec. spec.	06WGX234
Layout	06LYJ078
Eff. date	05-12-2025
CD Diagram	CD0006
Poles	06
Leads	3#16
Proprietary	False
Created date	11-18-2013

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	16.68 IN
Power Factor	68
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1165 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4328									
CAT.NO.	CECP83664T-4								
SPEC.	06J078X234G2								
HP	2 TE			IP	56				
VOLTS	460								
AMPS	3.2								
R.P.M.	1165								
FRAME	184TC		HZ	60		PH	3		
SER.F.	1.15	CODE	K	DES.	B	CLASS	F		
RATING	40C AMB-CONT								
SN									
DE	6206		ODE	6206					
NEMA NOM. EFF.	88.5		P.F.	68					
GUAR. MIN. EFF.	86.5		CC	010A					
T. CODE	T3C		TEMP=	160					

NP3186									
SPEC.	06J078X234G2								
ABMA DE BRG	30BC02X30X								
ABMA ODE BRG	30BC02X30X								
GREASE	POLYREX EM								
MOTOR WEIGHT	113	ROTOR BARS		27	STATOR BARS		36		
MAX. R.P.M.	1800	MAX. KVAR		1					
INV.TYPE	PWM								
T=	160								
CHP	60	TO		90					
CT	1.8	TO		60					
VT	-0	TO		60					
HTR-VOLTS	N/A	HTR-AMPS		N/A					
HTR-WATTS		MAX. SPACE HEATER TEMP.							N/A

Parts List

Part number	Description	Quantity
SA272405	SA 06J078X234G2	1.000 ea
RA259014	RA 06J078X234G2	1.000 ea
36FN3000B01	EXFN, PLASTIC, 6.00 OD, .912 ID	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1001A01G	CONDUIT BOX, MACH GRAY	1.000 ea
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
10XN2520G06	1/4 20X3/8 HX HD CAP, GREEN	1.000 ea
06PE1132A02G	FREP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4601B24	INPRO SEAL, 206 BRG, MINI66	1.000 ea
HW4500A32	FIT./EXT 1698-B (ALEMITE)GREASE FITTING	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	4.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4010A01	T-DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .0	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
36EP1322A01G	PU ENDPLATE, MACH	1.000 ea
HW4601B26	INPRO SEAL, 206 BRG, MINI66	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 ea
51XN1032A28	10-32 X 1 3/4 HX WS SL SR	4.000 ea
HA3101A53	THRUBOLT 1/4-20 X 10.50	4.000 ea
06FH1004A01G	FAN HOUSING MACH, W/GRAY EPOXY	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	3.000 ea

WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	1.000 ea
06CB1503A01G	LIPPED CONDUIT BOX LID, MACH GRAY EPOXY	1.000 ea
06GS1009	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.010 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
MJ1000A73	INPRO P-80 ASSEMBLY LUB./ 1 QT. CONTAIN	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LT0019A00	MOTOR NO-LOAD PERFORMANCE DATA SHEET	1.000 ea
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	3.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1025N19	WILKOFAS, 778.50, RELIANCE BLUE-GREEN 8	0.028 ga
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP4328	SS IEEE841-2021 DIV-2 UL EEV CSA-C US	1.000 ea
NP3186	SS IEEE841 INV AUX DATA INFORMATION	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea

AC Induction Motor Performance Data

Record # 117238

Typical performance - not guaranteed values

Winding: 06WGX234-R018			Type: 0642M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		2	Full Load Torque			9.057 LB-FT
Volts		460	Start Configuration			direct on line
Full Load Amps		3.2	Breakdown Torque			31.2 LB-FT
R.P.M.		1165	Pull-up Torque			16.7 LB-FT
Hz	60	Phase	Locked-rotor Torque			19.9 LB-FT
NEMA Design Code	B	KVA Code	Starting Current			25 A
Service Factor (S.F.)		1.15	No-load Current			1.84 A
NEMA Nom. Eff.	88.5	Power Factor	Line-line Res. @ 25°C			5.4163 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load			26°C
S.F. Amps			Temp. Rise @ S.F. Load			31°C
			Locked-rotor Power Factor			28.5
			Rotor inertia			0.395 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	48	60	68	73	75	71
Efficiency	80.6	87.1	88.6	88.5	88	86.7	88.3
Speed	1193.2	1186.2	1178.6	1170.4	1161.3	1150.7	1165
Line amperes	1.97	2.26	2.67	3.14	3.68	4.33	3.46

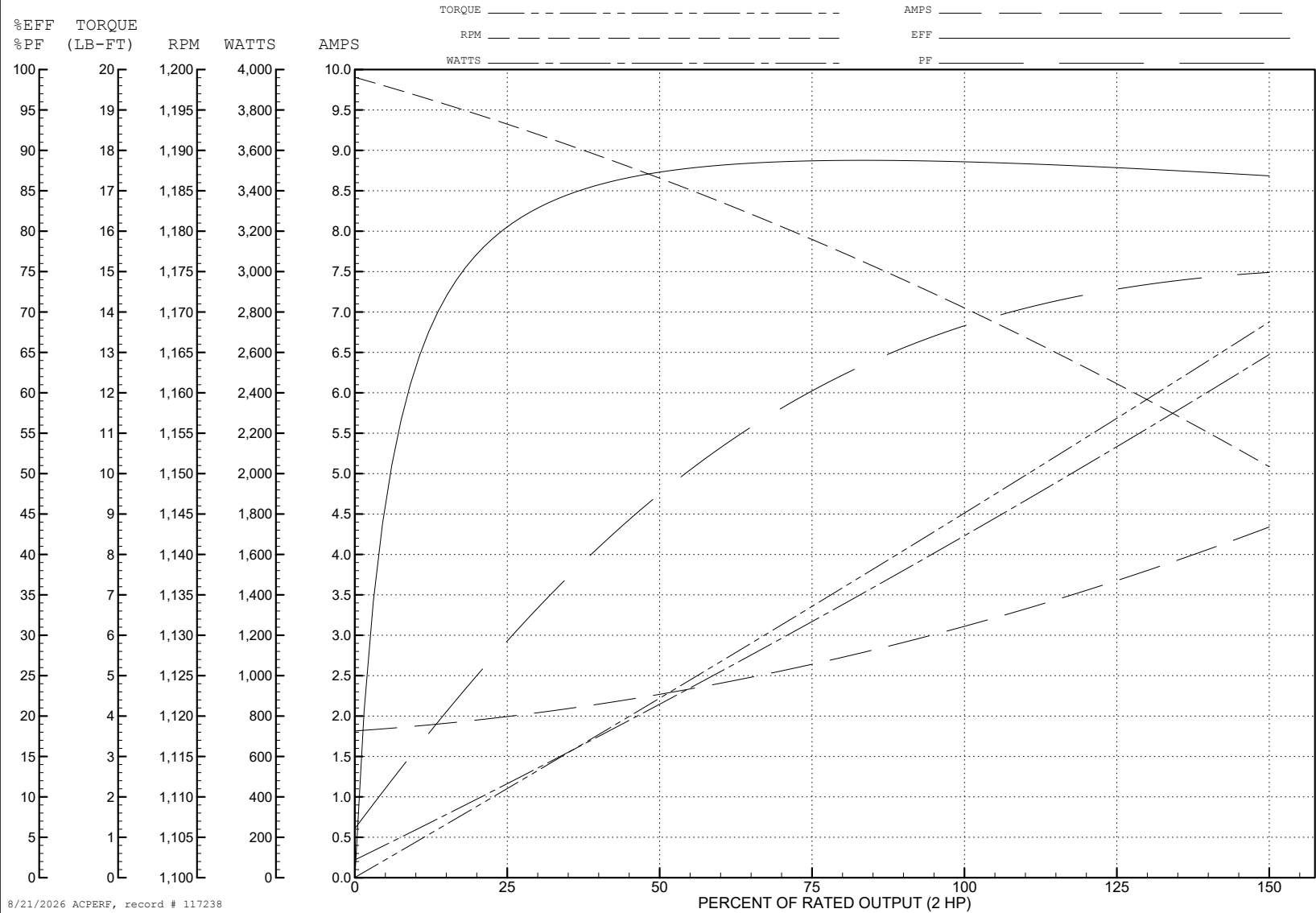
ABB Motors and Mechanical Inc.

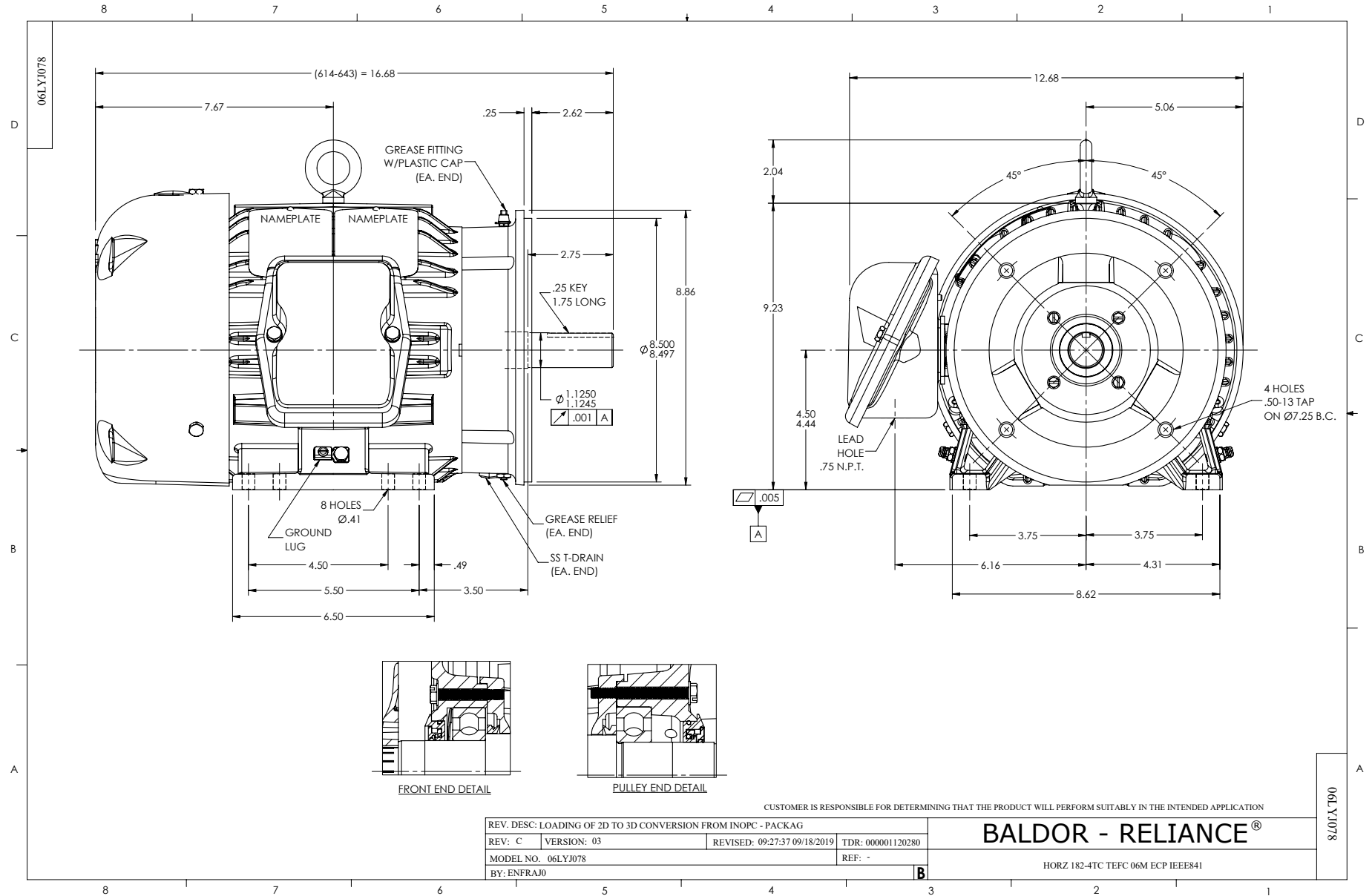
WINDING # 06WGX234

Typical performance - not guaranteed values.

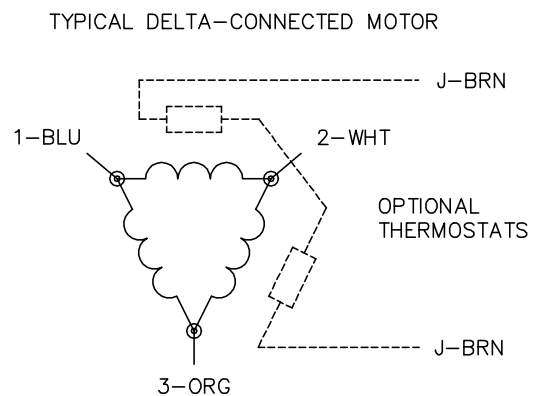
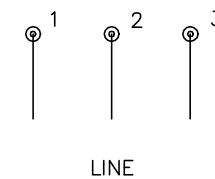
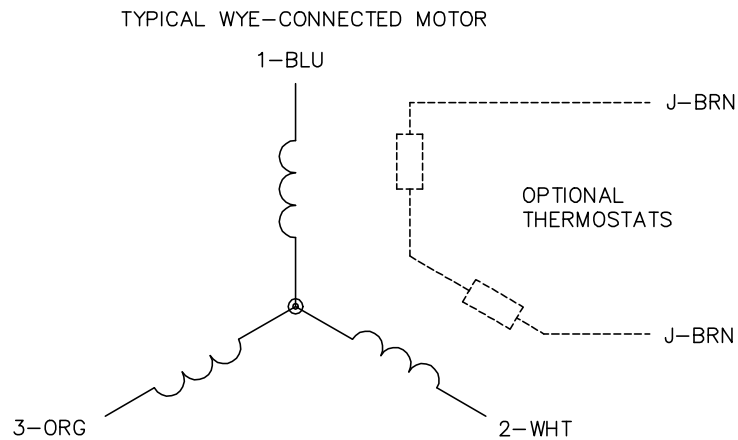
2 HP 3 PH 60 HZ 1165 RPM 460 V 0642M

TORQUES (LB-FT): PO=31.2 PU=16.7 LR=19.9 LRA=25





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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