ABB BALDOR RELIANCE

Customer information packet

EJMM3555T-5

2HP, 3490RPM, 3PH, 60HZ, 145JM, 3526M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145JM
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA 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
Current @ Voltage	2.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	B

Part Detail

Revision	J
Type	AC
Mech. spec.	35T921
Base	
Status	PRD/A
Elec. spec.	35WGM831
Layout	35LYT921
Eff. date	02-07-2025
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	08-14-2015

Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.41 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3490 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

NP3441L											
CAT.NO.	EJMM3555T-5										
SPEC.	35T921M831G1										
HP	2										
VOLTS	575										
AMP	2										
RPM	3490										
FRAME	145JM	**HZ**	60	**PH**	3						
SER.F.	1.15	**CODE**	M	**DES**	B	**CL**	B				
NEMA-NOM-EFF	85.5	**PF**	88								
RATING	40C AMB-CONT										
CC	010A										
DE	6206	**ODE**	6203								
ENCL	TEFC	**SN**									
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

Parts List

Part number	Description	Quantity
SA305622	SA 35T921M831G1	1.000 ea
RA292848	RA 35T921M831G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122G00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,R	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3401T05	FACE ENCL 206 BRG W/GRS, RELIEF & TGHSLV	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
35FH4005A86	IEC FH W/GRSR, NO DIMPLES W/PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
HA1005A02	SLINGER, OD 2.00, ID 1.14, 206 BRG,	1.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.017 ga
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea

NP3441L	ALUM SUPER-E VPWM INVERTER READY UL EEV	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

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AC Induction Motor Performance Data
Record # 52215
Typical performance - not guaranteed values

Winding: 35WGM831-R011	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	2.98 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2	**Breakdown Torque**	14.4 LB-FT
R.P.M.			3490	**Pull-up Torque**	6.42 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.4 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	21 A
Service Factor (S.F.)			1.15	**No-load Current**	0.745 A
NEMA Nom. Eff.	85.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	10.7 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	52°C
				Locked-rotor Power Factor	50.1
				Rotor inertia	0.0719 LB-FT2

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	54	74	84	88	90	91	89
Efficiency	73.3	83.6	85.6	86.3	85.7	84.7	85.9
Speed	3572	3547	3521	3493	3463	3428	3475
Line amperes	0.895	1.19	1.55	1.96	2.4	2.89	2.22

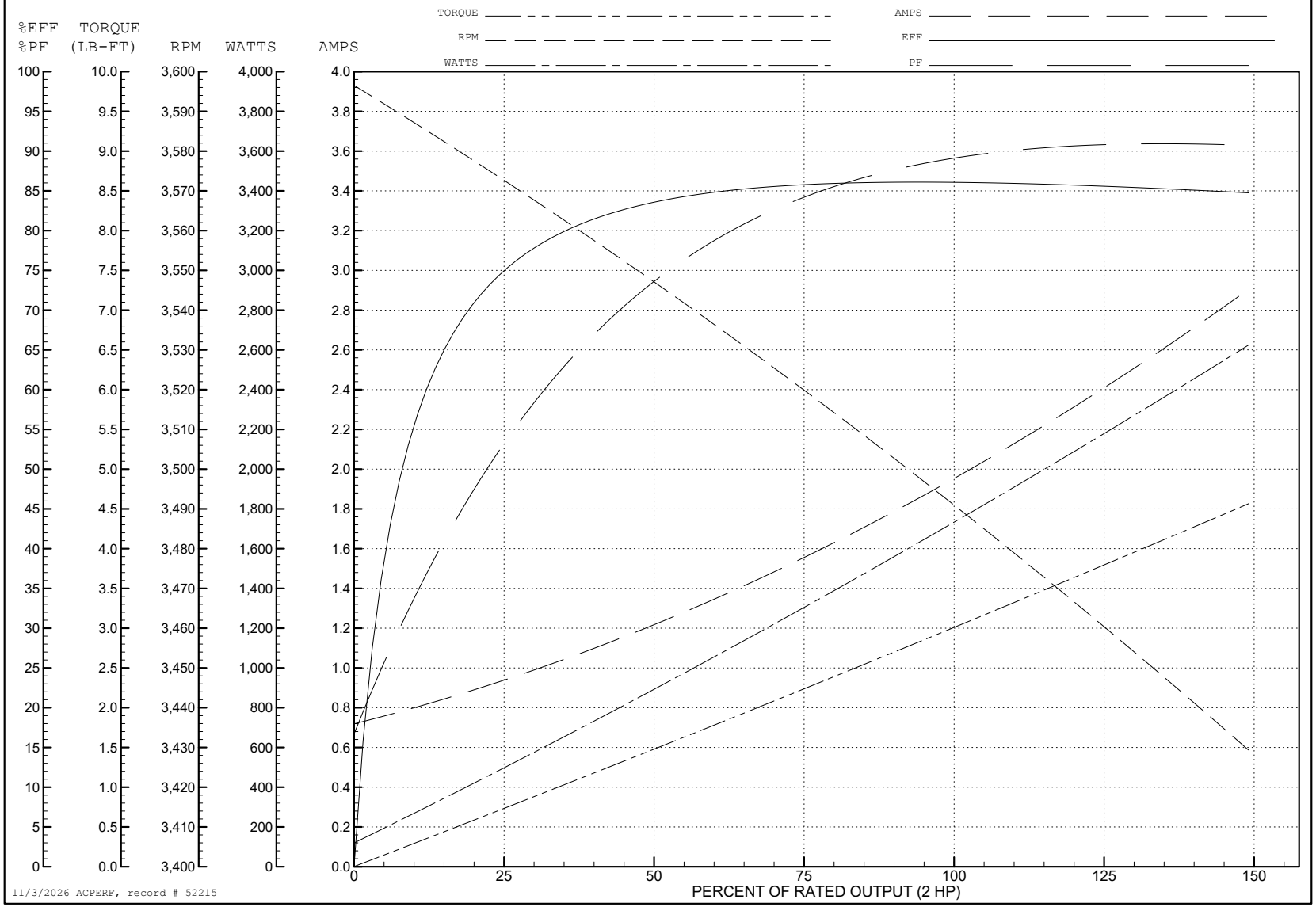
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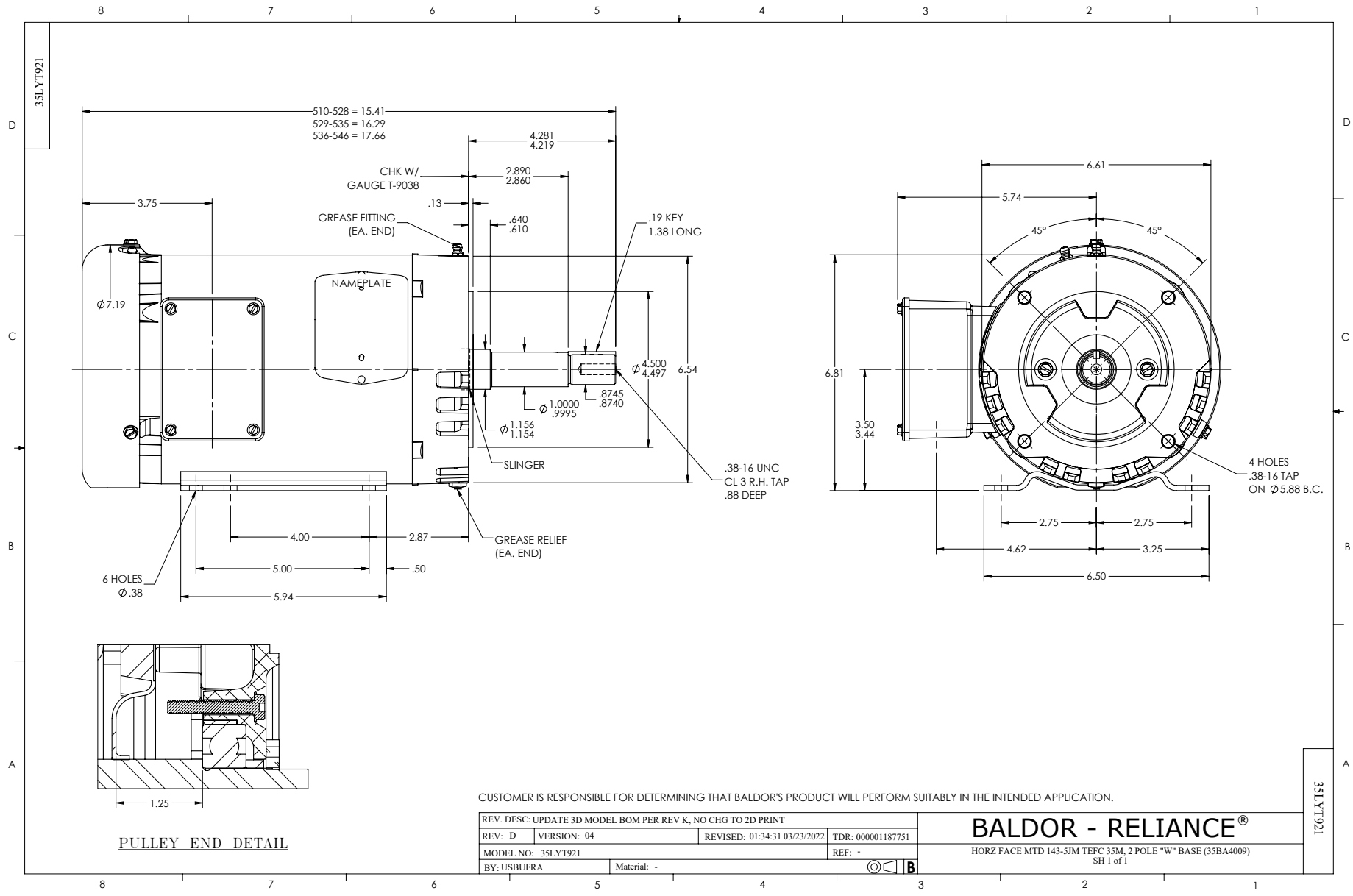
WINDING # 35WGM831

2 HP 3 PH 60 HZ 3490 RPM 575 V 3526M

Typical performance - not guaranteed values.

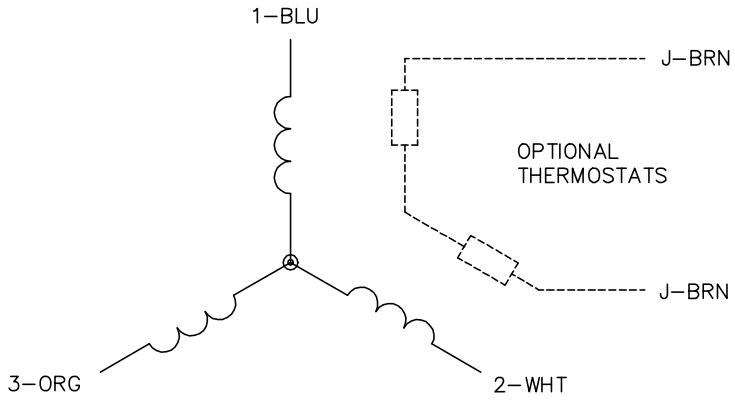
TORQUES(LB-FT): PO=14.4 PU=6.42 LR=11.4 LRA=21

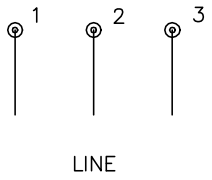



35LYT921
510-528 = 15.41
529-535 = 16.29
536-546 = 17.66
4.281
4.219
CHK W/
GAUGE T-9038
2.890
2.860
3.75
.13
GREASE FITTING
(EA. END)
.640
.610
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø 4.500
4.497
6.54
Ø 1.0000
.9995
.8745
.8740
Ø 1.156
1.154
SLINGER
.38-16 UNC
CL 3 R.H. TAP
.88 DEEP
4.00
2.87
GREASE RELIEF
(EA. END)
6 HOLES
Ø .38
5.00
.50
5.94
6.61
5.74
45°
45°
6.81
3.50
3.44
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
2.75
2.75
4.62
3.25
6.50
1.25
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: UPDATE 3D MODEL BOM PER REV K, NO CHG TO 2D PRINT
REV: D
VERSION: 04
REVISED: 01:34:31 03/23/2022
TDR: 000001187751
MODEL NO: 35LYT921
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
HORZ FACE MTD 143-5JM TEFC 35M, 2 POLE "W" BASE (35BA4009)
SH 1 of 1
35LYT921

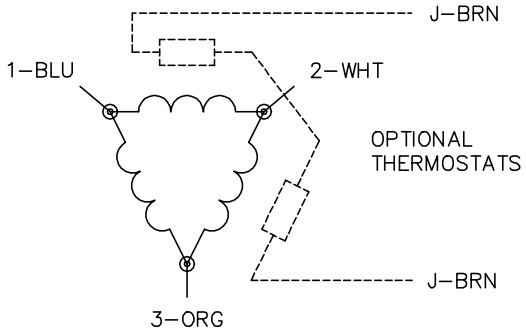
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

SH 1 of 1