ABB BALDOR RELIANCE

Customer information packet

EHM2515T-8

20HP, 1765RPM, 3PH, 60HZ, 256T, 3948M, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	256T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	55.000 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
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	55.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	M
Type	AC
Mech. spec.	39R006
Base	
Status	PRD/A
Elec. spec.	39WGX981
Layout	39LYR006
Eff. date	12-12-2025
CD Diagram	CD0695
Poles	04
Leads	6#8
Proprietary	False
Created date	06-20-2016

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3948M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.19 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2094E06B03									
CAT.NO.	EHM2515T-8								
SPEC.	39R006X981G1								
HP	20								
VOLTS	200								
AMPS	55								
RPM	1765								
FRAME	256T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	G	**DES**	A	**CL**	F		
NEMA-NOM-EFF	93	**PF**	85						
RATING	40C AMB-CONT								
CC	010A	**USABLE AT 208V**				N/A			
DE	6309	**ODE**	6208						
AUTO		**MANUAL**		**NONE**					
ENCL	OPSB	**SN**							
BLANK									

Parts List

Part number	Description	Quantity
SA322711	SA 39R006X981G1	1.000 ea
RA310510	RA 39R006X981G1	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 ea
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
39EP3200A01SP	FR/PU ENDPLATE, MACH	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
39EP3201A23	PU ENDPLATE, MACH W/AEGIS SH RING MTG	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
84XN0632J08	#6-32 X .50 SOCK HD, BK OX	2.000 ea
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	3.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 ea
HA3154A03	STUD, 3/8-16 X 17.75	4.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.050 ga
LC0695	CONNECTION LABEL	1.000 ea
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 ea
39PA1000	PACKAGING GROUP 39 PRINT	1.000 ea
LD7020F06	LEAD SET, 8AWG, 6 LEAD, 20" LONG LEADS	1.000 ea

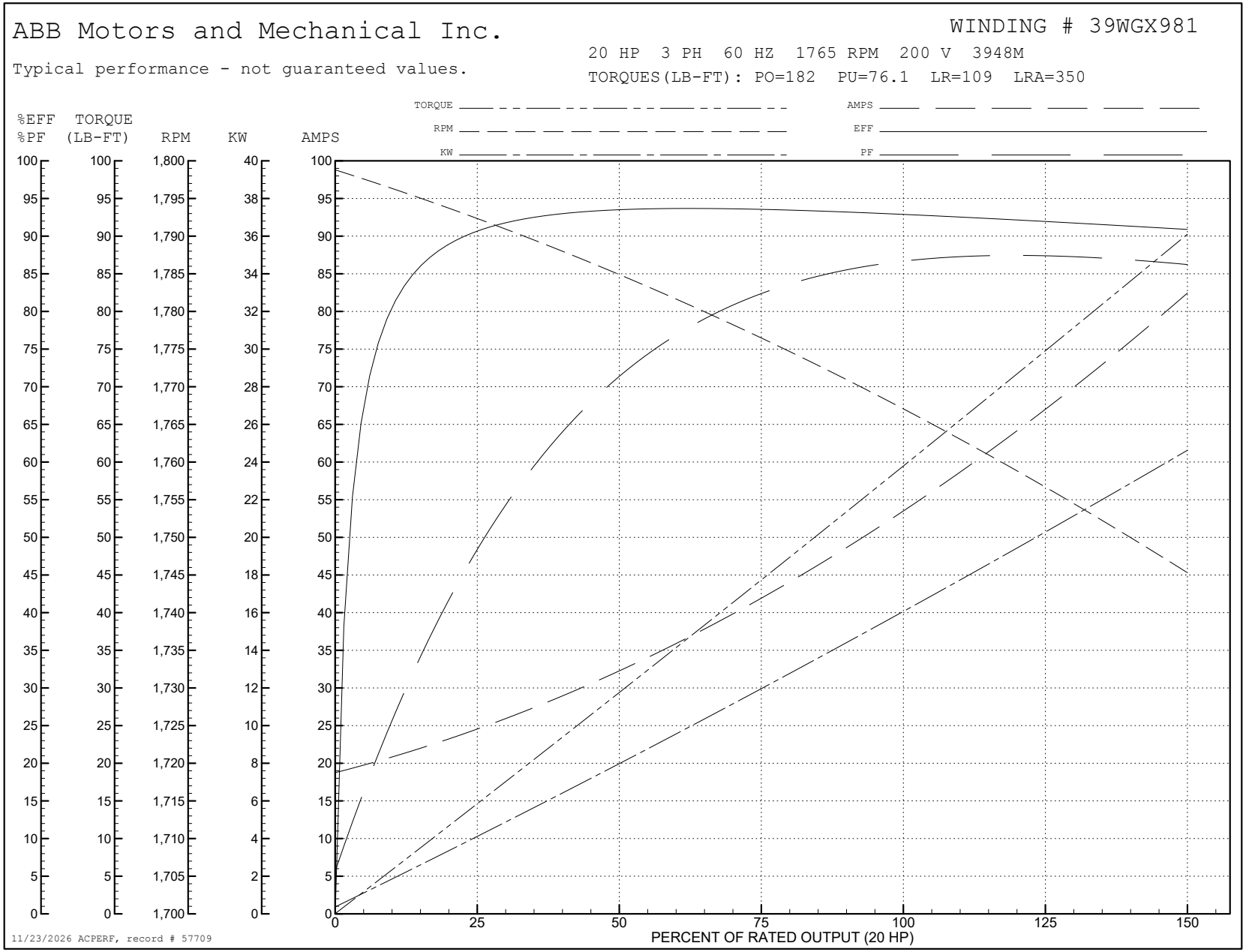
AC Induction Motor Performance Data
Record # 57709
Typical performance - not guaranteed values

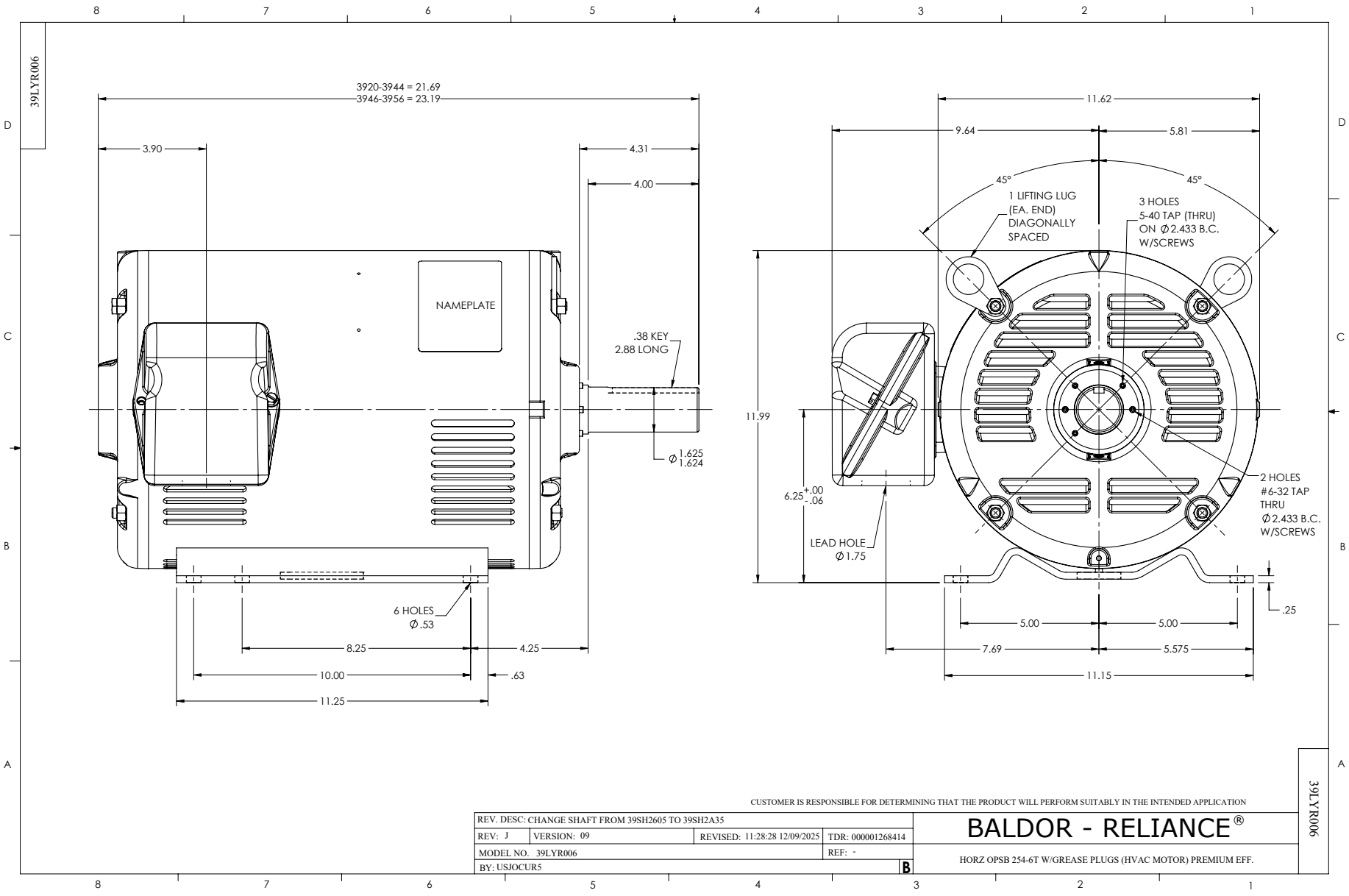
Winding: 39WGX981-R001	**Type:** 3948M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	59.8 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			55	**Breakdown Torque**	182 LB-FT
R.P.M.			1765	**Pull-up Torque**	76.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	109 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	350 A
Service Factor (S.F.)			1.15	**No-load Current**	19.6 A
NEMA Nom. Eff.	93	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.0886 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	37°C
S.F. Amps				**Temp. Rise @ S.F. Load**	46°C
				Locked-rotor Power Factor	33.3
				Rotor inertia	2.1 LB-FT2

Load Characteristics 200 V, 60 Hz, 20 HP

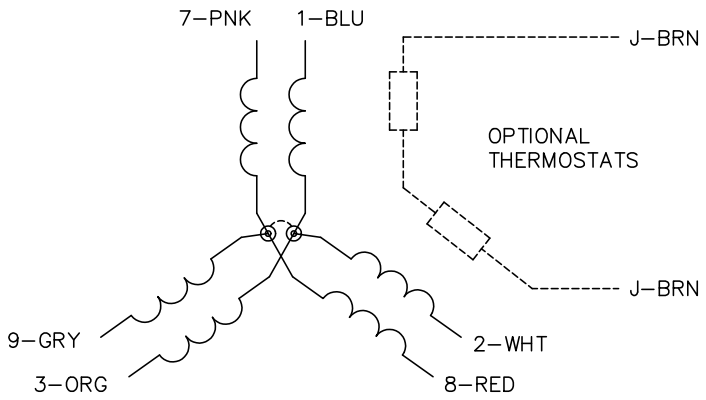
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	73	82	85	87	87	86
Efficiency	90.5	93.3	93.5	93.1	92.1	90.8	92.5
Speed	1792	1785	1776	1767	1757	1745	1761
Line amperes	23.5	31.7	42.4	54.5	67.5	81.9	62.3


ABB Motors and Mechanical Inc.
WINDING # 39WGX981
Typical performance - not guaranteed values.
20 HP 3 PH 60 HZ 1765 RPM 200 V 3948M
TORQUES(LB-FT): PO=182 PU=76.1 LR=109 LRA=350
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/23/2026 ACPERF, record # 57709

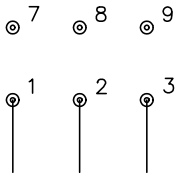

39LYR006
3920-3944 = 21.69
3946-3956 = 23.19
3.90
4.31
4.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø .53
8.25
4.25
10.00
.63
11.25
11.62
9.64
5.81
45°
45°
1 LIFTING LUG
(EA. END)
DIAGONALLY
SPACED
3 HOLES
5-40 TAP (THRU)
ON Ø 2.433 B.C.
W/SCREWS
11.99
6.25 +.00 -.06
LEAD HOLE
Ø 1.75
2 HOLES
#6-32 TAP
THRU
Ø 2.433 B.C.
W/SCREWS
.25
5.00
5.00
7.69
5.575
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: J
VERSION: 09
REVISED: 11:28:28 12/09/2025
TDR: 000001268414
MODEL NO. 39LYR006
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T W/GREASE PLUGS (HVAC MOTOR) PREMIUM EFF.
39LYR006

CD0695

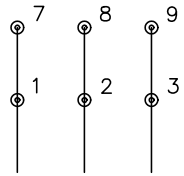
TYPICAL WYE–CONNECTED MOTOR



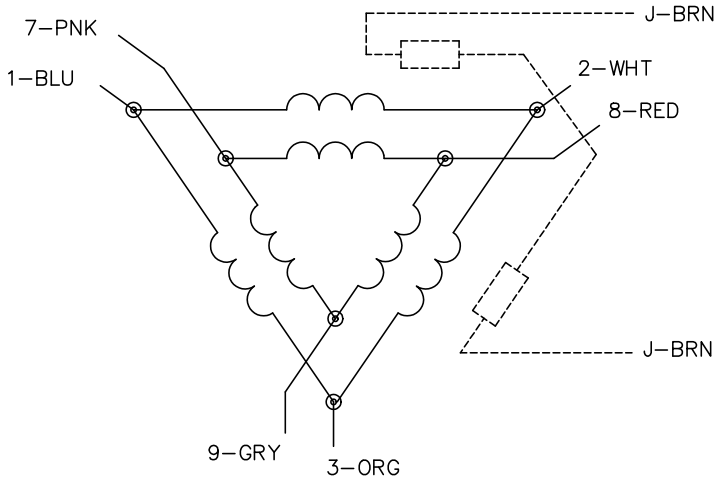
START CONNECTION



RUN CONNECTION



TYPICAL DELTA–CONNECTED MOTOR



NOTES:

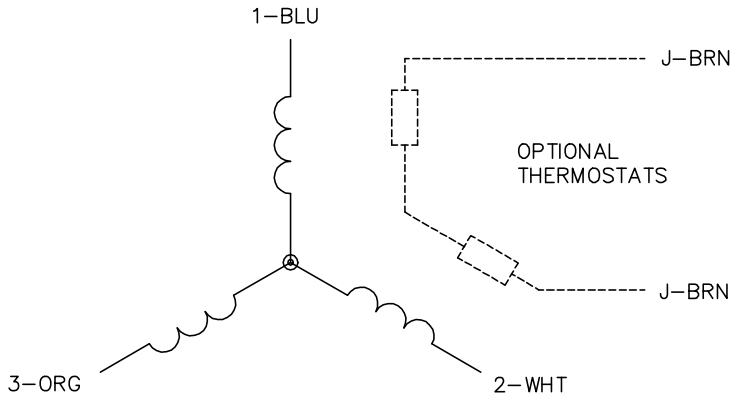
1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

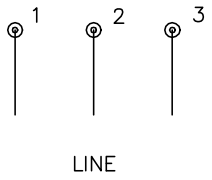
CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
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CD0695		FILE: AAA00005151	MDL: –
		MTL: –	3PH, SV, 6 LEADS, PART WINDING START

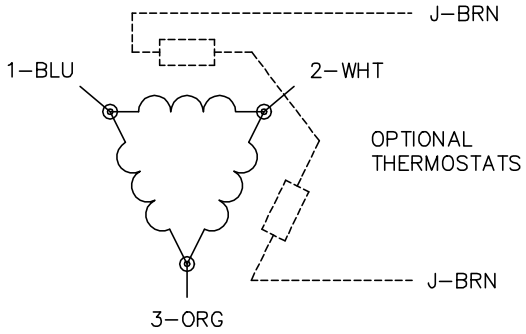
CD0006

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