ABB BALDOR RELIANCE

Customer information packet

EFM2515T-8

20HP, 1765RPM, 3PH, 60HZ, 256T, 3948M, OPSB, F2
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/5/2026 12:48:44 PM

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	NEMA PREMIUM CURUSEEV NEMA PREMIUM (OLD LOGO)
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

Part Detail

Revision	M
Type	AC
Mech. spec.	39K70
Base	
Status	PRD/A
Elec. spec.	39WGX981
Layout	39LYK070
Eff. date	12-12-2025
CD Diagram	CD0695
Poles	04
Leads	6#8
Proprietary	False
Created date	06-20-2016

Inverter Code	Inverter Ready
IP Rating	NONE
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	F2
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

NP1259L											
CAT.NO.	EFM2515T-8										
SPEC.	39K070X981G1										
HP	20										
VOLTS	200										
AMP	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										
DE	6309		**ODE**	6208							
ENCL	OPSB	**SN**									

Accessories

Part number	Description	Multiplier
39-3400	C FACE KIT	A8

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

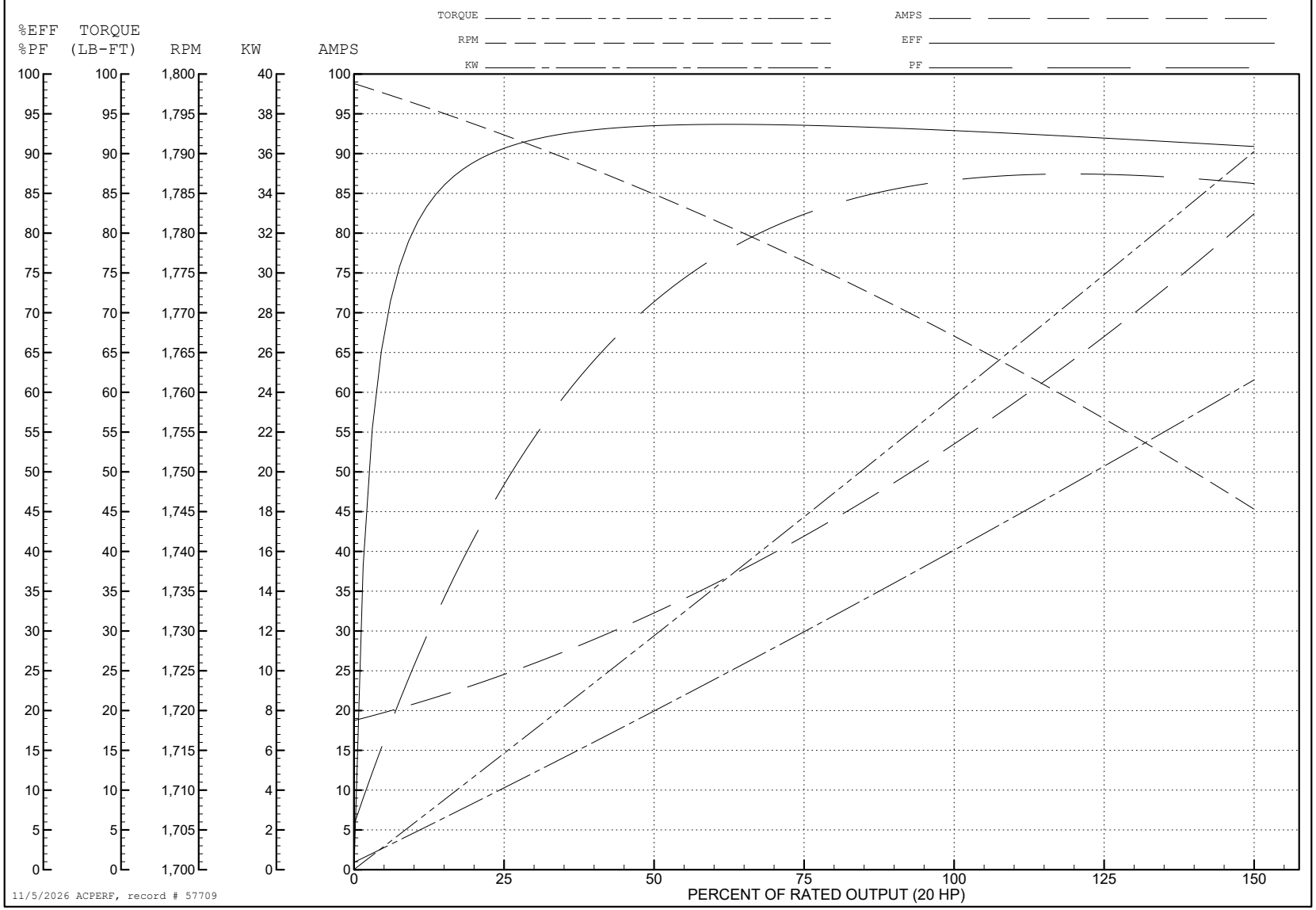
ABB Motors and Mechanical Inc.

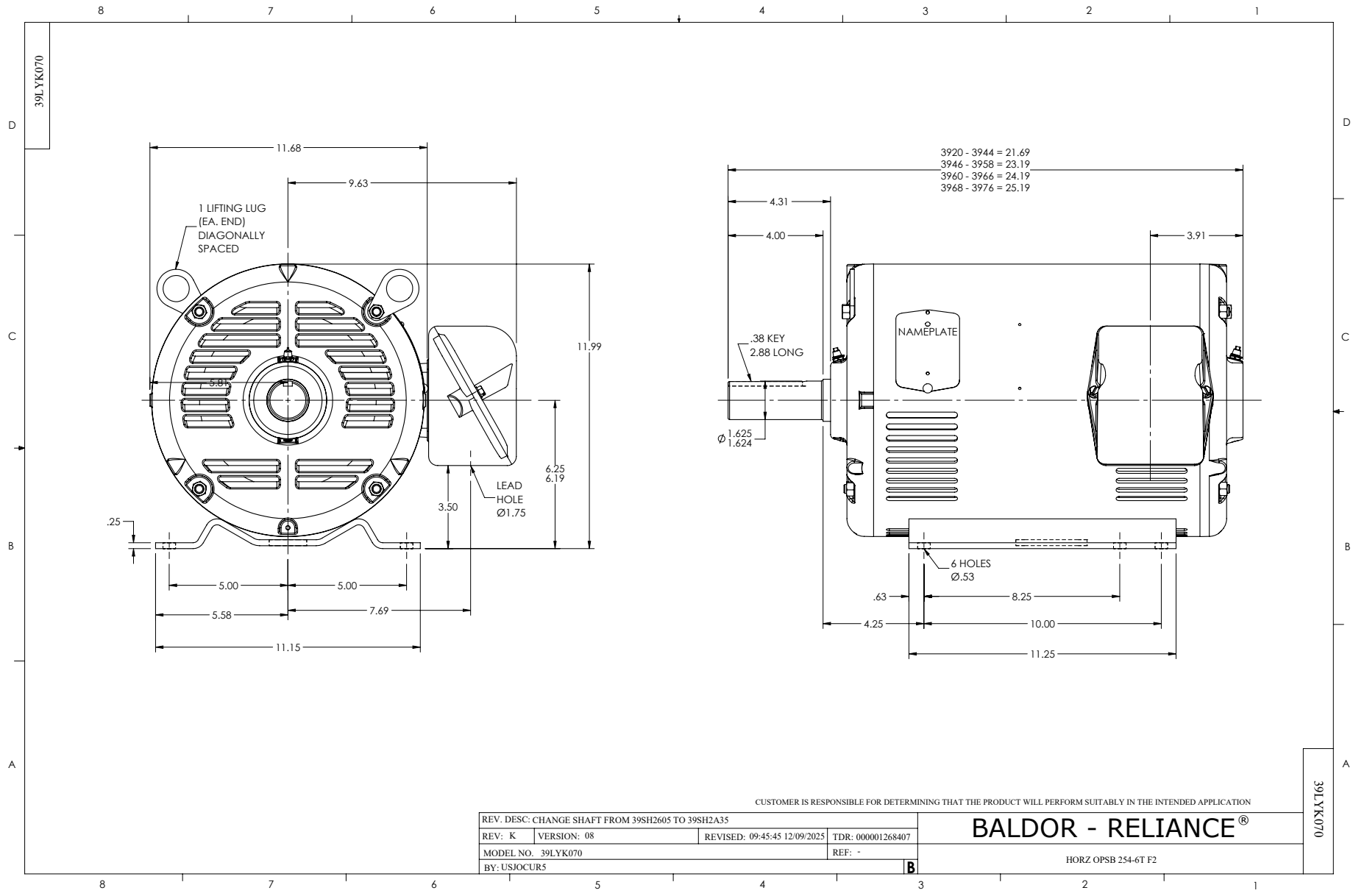
WINDING # 39WGX981

20 HP 3 PH 60 HZ 1765 RPM 200 V 3948M

Typical performance - not guaranteed values.

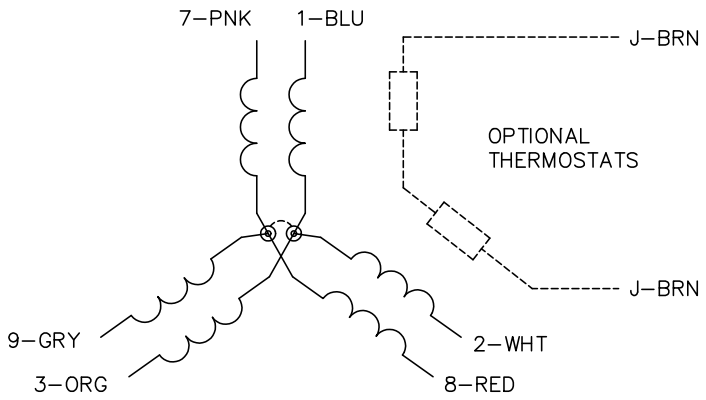
TORQUES(LB-FT): PO=182 PU=76.1 LR=109 LRA=350



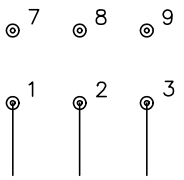

39LYK070
11.68
9.63
1 LIFTING LUG (EA. END) DIAGONALLY SPACED
11.99
5.81
6.25
6.19
3.50
LEAD HOLE Ø1.75
.25
5.00
5.00
5.58
7.69
11.15
3920 - 3944 = 21.69
3946 - 3958 = 23.19
3960 - 3966 = 24.19
3968 - 3976 = 25.19
4.31
4.00
3.91
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES Ø.53
.63
8.25
4.25
10.00
11.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE SHAFT FROM 39SH2605 TO 39SH2A35
REV: K
VERSION: 08
REVISED: 09:45:45 12/09/2025
TDR: 000001268407
MODEL NO. 39LYK070
REF: -
BY: USJOCUR5
B
BALDOR - RELIANCE®
HORZ OPSB 254-6T F2
39LYK070

CD0695

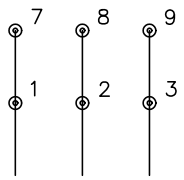
TYPICAL WYE–CONNECTED MOTOR



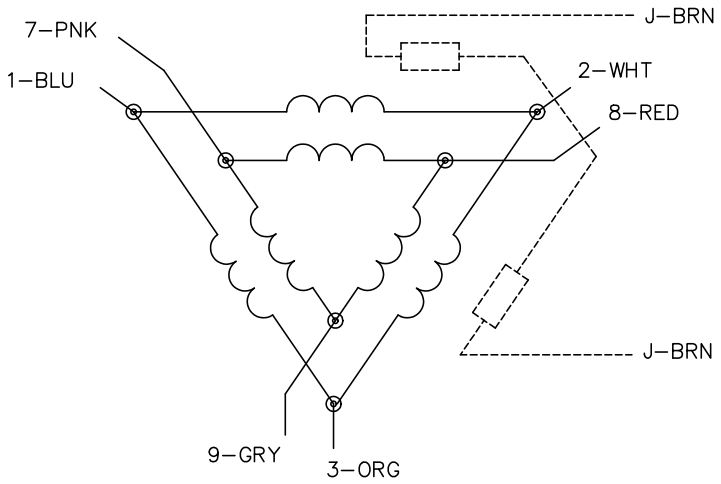
START CONNECTION



RUN CONNECTION



TYPICAL DELTA–CONNECTED MOTOR



NOTES:

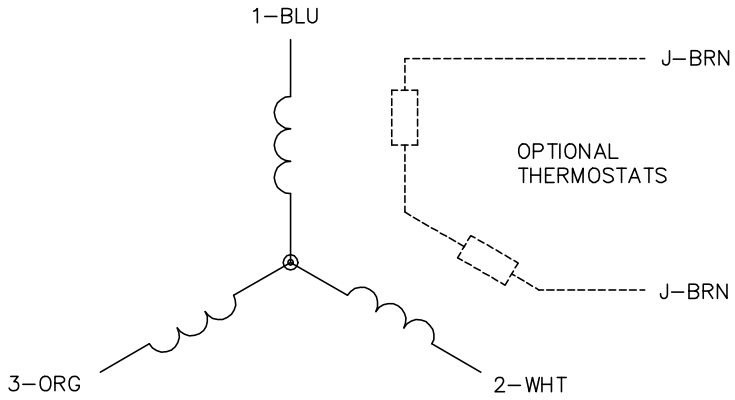
1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

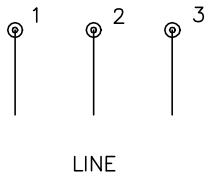
CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
CD0695		FILE: AAA00005151	MDL: –
		MTL: –	3PH, SV, 6 LEADS, PART WINDING START

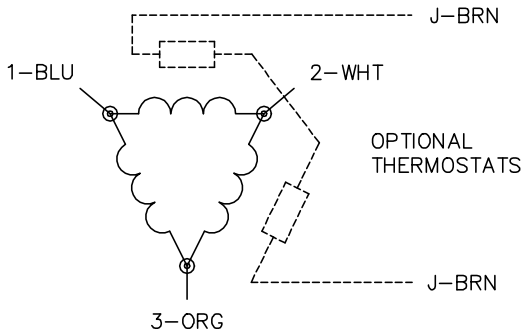
CD0006

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