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# Customer information packet

## JMFSWDM3714T-E

10HP, 1770RPM, 3PH, 60HZ, 215JM, 3756M, TEFC, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	215JM
Frame Material	Stainless Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	26.700 A @ 208.0 V 25.000 A @ 230.0 V 12.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

## Part detail

Revision	M
Type	AC
Mech. spec.	37Q257
Base	
Status	PRD/A
Elec. spec.	37WGS251
Layout	37LYQ257
Eff. date	09-22-2023
CD Diagram	CD0180
Poles	04
Leads	9#14
Proprietary	False
Created date	10-12-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.56 IN
Power Factor	81
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
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	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

Nameplate

NP4427AAA05											
CAT #	JMFSWDM3714T-E						LBS				
SPEC	37Q257S251G1						ENCL		TEFC		
SER #							CC	010A	IP	69	
HP	10			MAG CUR		12.6/6.3					
VOLTS	230/460						NEMA NOM. EFF		92.4		
AMPS	25/12.5						PF	81			
RATING	40C AMB-CONT										
RPM	1770						MAX RPM		2700		
FRAME	215JM	HZ		60		CODE	K	CLASS		H	
SER.F.	1.15	SF AMP					PH	3	DES	B	
DE	6309			ODE		6307					
LUBRICATION	POLYREX EM										
ID LOGO	VPWM	CHP	60	TO	90	1.5:1					
ID LOGO	WK2	1.38	CT	15	TO	60	4:1				
ID LOGO	SL HZ	1	VT	6	TO	60	10:1				
											QR
YR											

## Parts list

Part number	Description	Quantity
SA348789	SA 37Q257S251G1	1.000 ea
RA337375	RA 37Q257S251G1	1.000 ea
37FN3002B01	EXFN, PLASTIC, 7.50 OD, 1.155 ID	1.000 ea
35CB1017B01	37 MID SECT - 3 PC. CONDUIT BOX 1.00 NPT	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HA3424S64	STUD - M6X1.0 THDS X 4.00"	1.000 ea
11XW1032G08	10-32 X .50, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
37EP1920A03	FREP, TEFC MACH - 307 BRG WD11/12 (STAIN	1.000 ea
RM1070A48	O-RING, .070 C.S. X 8.656 ID, VITON	1.000 ea
HW4600F35	35 X 52 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F34	35 X 53 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
37EP1926A02	PUEP, MACH - 309 BRG WD11/12 (STAINLESS)	1.000 ea
RM1070A48	O-RING, .070 C.S. X 8.656 ID, VITON	1.000 ea
HW4600F80	45 X 62 X 4.5 AFS SEAL, GRAPHITE INFUSED	1.000 ea
HW4600F81	45 X 68 X 10 LIP SEAL, GRAPHITE INFUSED	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
RM1070A47	O-RING, -011 VITON/FKM .070CS X .301ID	4.000 ea
11XB1214S16	12-14X1.00 HXWSSLD TYP B STAINLESS	1.000 ea
37FH4000A45	STAINLESS FAN COVER, NO GREASER SLOT (FO	1.000 ea
10XN1032FS06	HEX HD CAP SCREW 10-32 X 3/8 SS FOOD SAF	3.000 ea
35CB1513A01	35-36-37 MACH. LID - 3 PC. CONDUIT BOX	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 qt
MJ5004A93	FOOD GRADE (H1 RATED) ANTISEIZE THRD COM	0.005 ea
HA1025A21	WSHR,FELT .125" THK	1.000 ea
HA5027A09	DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL	1.000 ea

MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
WD5603A01	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 ea
HA3104FS31	THRUBOLT, 5/16-18 X 15.875 SS FOOD SAFE	4.000 ea
37PA1067	PALLET PACK GROUP, PK1156A06, PK1900A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2100bx)4/22	1.000 ea
FE-0000016	ZTRG FE ASSEMBLY	1.000 ea
PE-0000016	ZRTG PE ASSEMBLY	1.000 ea

**AC Induction Motor Performance Data**

Record # 62567

Typical performance - not guaranteed values

<b>Winding: 37WGS251-R016</b>		<b>Type: 3756M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	10	<b>Full Load Torque</b>	29.9 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	25/12.5	<b>Breakdown Torque</b>	102 LB-FT		
<b>R.P.M.</b>	1770	<b>Pull-up Torque</b>	53.6 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	74.2 LB-FT		
<b>NEMA Design Code</b>	<b>Phase</b> 3	<b>Starting Current</b>	105 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	5.44 A		
<b>NEMA Nom. Eff.</b>	92.4	<b>Line-line Res. @ 25°C</b>	0.799 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	76°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	93°C		
		<b>Locked-rotor Power Factor</b>	31.7		
		<b>Rotor inertia</b>	1.38 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 10 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	43	65	76	81	83	84	82
<b>Efficiency</b>	88	92.6	93	92.9	92.2	91.5	92.5
<b>Speed</b>	1793	1786	1778	1770	1762	1752	1765
<b>Line amperes</b>	6.18	7.79	10	12.5	15.3	18.3	14.2



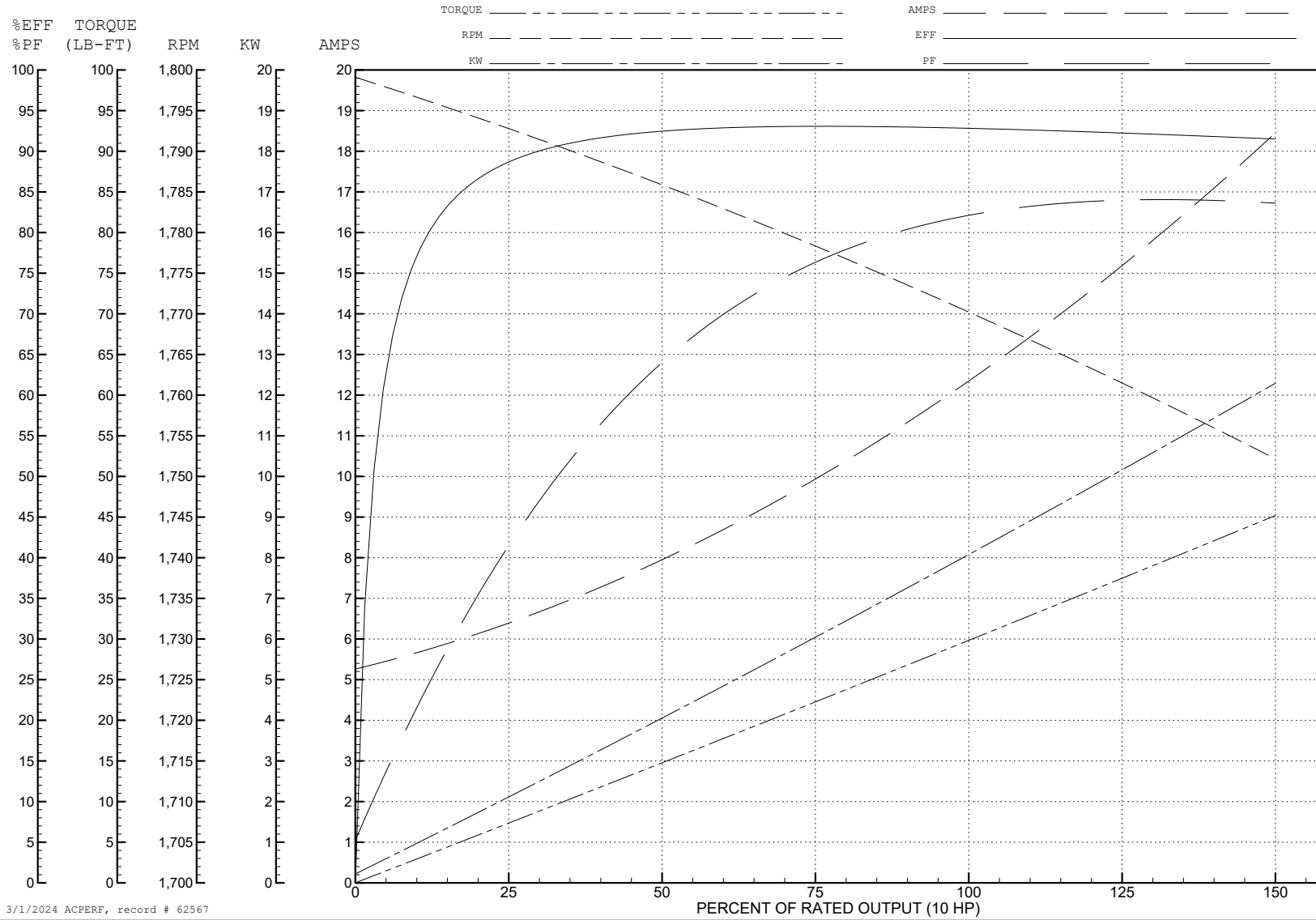
ABB Motors and Mechanical Inc.

WINDING # 37WGS251

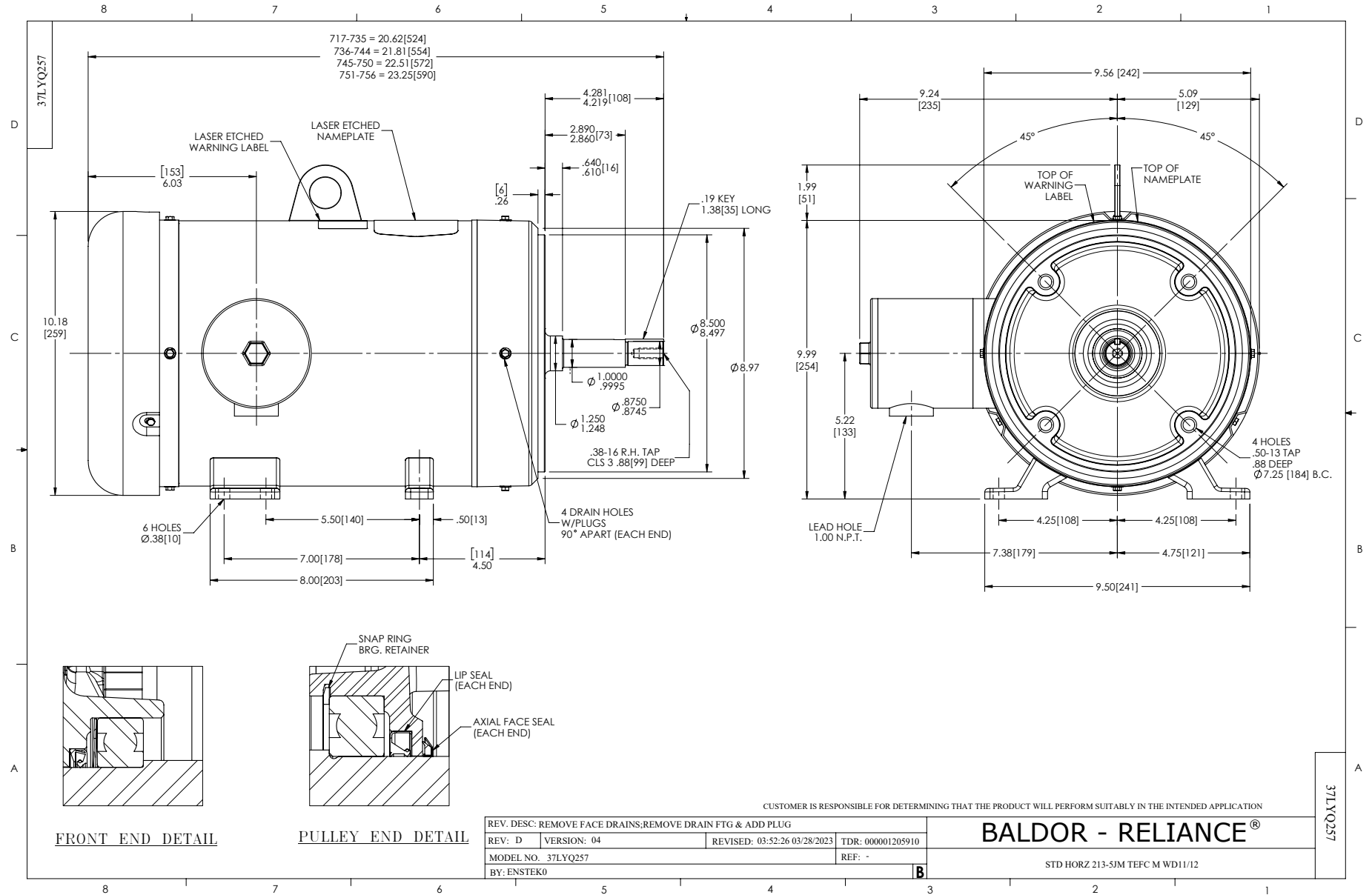
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3756M

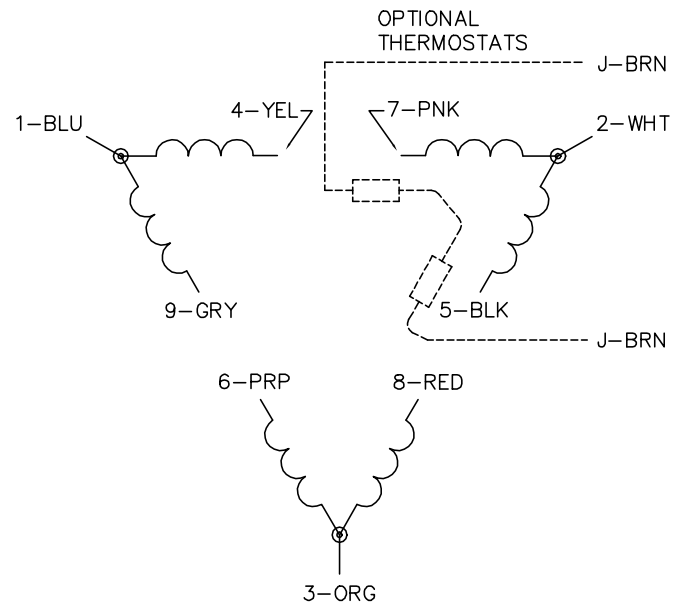
TORQUES (LB-FT): PO=102 PU=53.6 LR=74.2 LRA=105



3/1/2024 ACPERF, record # 62567



CD0180



LOW VOLTAGE  
(2D)



HIGH VOLTAGE  
(1D)



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: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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