

**BALDOR • RELIANCE**

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# Customer information packet

## CFSWDM41908T

68M 2P TEFC HOR 284TSC S/P9-11 SE ALL SS

## Specifications

Enclosure	TEFC
Frame	284TSC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA UR NEMA PREMIUM
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	68.000 A @ 230.0 V 34.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	34.0 a
Insulation Class	H
Inverter Code	Inverter Ready

## Part detail

Revision	J
Type	AC
Mech. spec.	40E464
Base	
Status	PRD/A
Elec. spec.	40WGX293
Layout	40LYE464
Eff. date	09-22-2023
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	07-10-2018

<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	9 @ 10 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	4068M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	26.77 IN
<b>Power Factor</b>	90
<b>Product Family</b>	WD All SD Non-Encapsulated
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3540 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

Nameplate

NP4427AAA05									
CAT #	CFSWDM41908T				LBS				
SPEC	40E464X293G1				ENCL TEFC				
SER #					CC	010A	IP	69	
HP	30			MAG CUR	20/10				
VOLTS	230/460				NEMA NOM. EFF				91.7
AMPS	68/34				PF		90		
RATING	40C AMB-CONT								
RPM	3540				MAX RPM		5400		
FRAME	286TSC	HZ 60		CODE	J	CLASS		H	
SER.F.	1.15	SF AMP			PH	3	DES		A
DE	6311			ODE		6311			
LUBRICATION	POLYREX_SHC_102_EM								
ID LOGO	VPWM	CHP	60	TO	90	1.5:1			
ID LOGO	WK2	2.92	CT	30	TO	60	2:1		
ID LOGO	SL HZ	1	VT	6	TO	60	10:1		
									QR
YR									

## Parts list

Part number	Description	Quantity
SA358250	SA 40E464X293G1	1.000 ea
RA347300	RA 40E464X293G1	1.000 ea
37FN3002A03	EXFN, PLASTIC, 9.00 OD, 1.690 ID	1.000 ea
40CB1001A01	40 MACH. MID SECTION - 3 PC. CONDUIT BOX	1.000 ea
10XN2520S12	BOLT 1/4 - 20X 3/4 HEX HEAD SS (F/S)	4.000 ea
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	4.000 ea
RM1070A82	O-RING, -055 VITON/FKM .070CS X 6.489 ID	1.000 ea
10XN2520G06	1/4 20X3/8 HX HD CAP, GREEN	1.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
40EP1901A02	FREP, MACH - 311 BRG WD11 SS	1.000 ea
RM1070A83	O-RING, VITON/FKM .070CS X 12.500 ID	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW4600H05	55 X 75 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600G75	55 X 75 X 5.5 AFS SEAL, GRAPHITE INFUSED	1.000 ea
HW4600H05	55 X 75 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600G75	55 X 75 X 5.5 AFS SEAL, GRAPHITE INFUSED	1.000 ea
HW5100A13	W4627-047 WVY WSHR	1.000 ea
40EP1900A02	PUEP, MACH - 311 BRG WD11 SS	1.000 ea
RM1070A83	O-RING, VITON/FKM .070CS X 12.500 ID	1.000 ea
RM1070A78	O-RING, -012 VITON/FKM .070CS X .364ID	4.000 ea
40CB1500A01	40 MACH. LID - 3 PC. SS CONDUIT BOX	1.000 ea
RM1070A82	O-RING, -055 VITON/FKM .070CS X 6.489 ID	1.000 ea
51XB1214S20	12-14X1.25 HXWSSLD SERTYB, SS	1.000 ea
10FH4018A01	304 SS FAN HOUSING & BASE PLATE FOR HORZ	1.000 ea
10XN2520S08	SCREW, 1/4-20 X 1/2 HHCS SS	4.000 ea
HW2502G17	#303 SS,SQ KEY 3/8 X 1.875	1.000 ea
MJ5004A93	FOOD GRADE (H1 RATED) ANTISEIZE THRD COM	0.005 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
HA5027A09	DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL	1.000 ea
MJ1000B13	PETROLATUM, OR PETROLEUM JELLY	0.010 oz

MJ1000A107	GREASE, MOBIL SHC POLYREX 102 EM	0.050 lb
HW2502F10	KEY, 5/16 SQ X 1.000 303 STAIMLESS STEEL	1.000 ea
HA3105FS16	THRUBOLT, 3/8-16 X 18.750 SS FOOD SAFE	4.000 ea
WD4006A11	WIRE JOINT, 6-14 AWG, SILICONE FILLED	6.000 ea
40PA1000	PACKAGING GROUP	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
FE-0000022	ZRTG FE ASSEMBLY	1.000 ea
PE-0000013	ZRTG PE ASSEMBLY	1.000 ea

**AC Induction Motor Performance Data**

Record # 75424

Typical performance - not guaranteed values

<b>Winding: 40WGX293-R001</b>		<b>Type: 4068M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
Rated Output (HP)		30	Full Load Torque		44.54 LB-FT
Volts		230/460	Start Configuration		direct on line
Full Load Amps		68/34	Breakdown Torque		166 LB-FT
R.P.M.		3540	Pull-up Torque		71.9 LB-FT
Hz	60 Phase	3	Locked-rotor Torque		99.7 LB-FT
NEMA Design Code	A KVA Code	J	Starting Current		293 A
Service Factor (S.F.)		1.15	No-load Current		14.1 A
NEMA Nom. Eff.	91.7 Power Factor	90	Line-line Res. @ 25°C		0.16599 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		90°C
S.F. Amps			Temp. Rise @ S.F. Load		106°C
			Locked-rotor Power Factor		22

**Load Characteristics 460 V, 60 Hz, 30 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>
Power Factor	50	72	82	86	88	89	87
Efficiency	85.6	90.9	92.1	92.3	91.9	91.3	92.1
Speed	3586.7	3571	3555	3539.6	3522.6	3503.9	3529
Line amperes	16.5	21.6	28	35.4	43.2	51.7	40.1

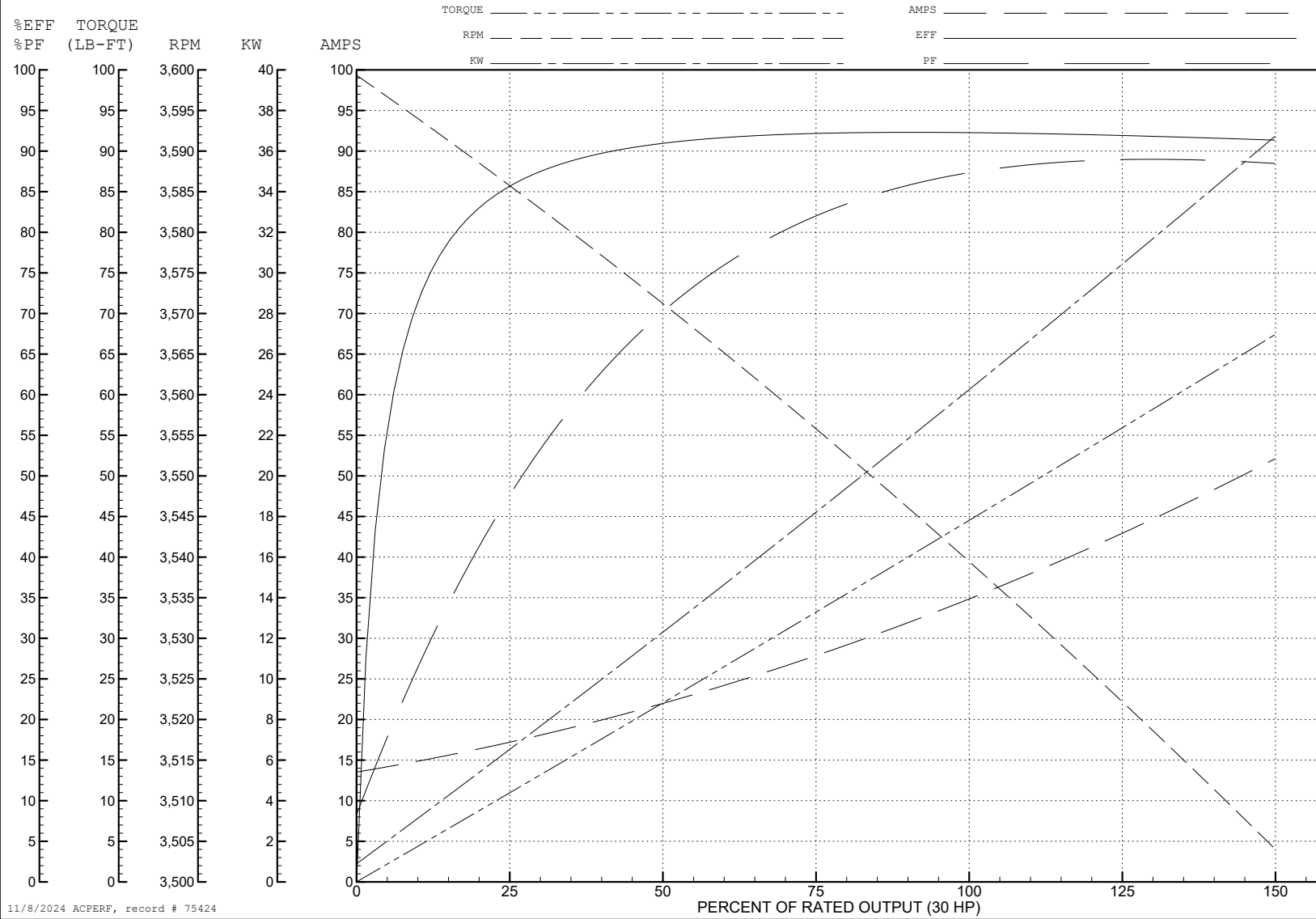
ABB Motors and Mechanical Inc.

WINDING # 40WGx293

30 HP 3 PH 60 HZ 3540 RPM 460 V 4068M

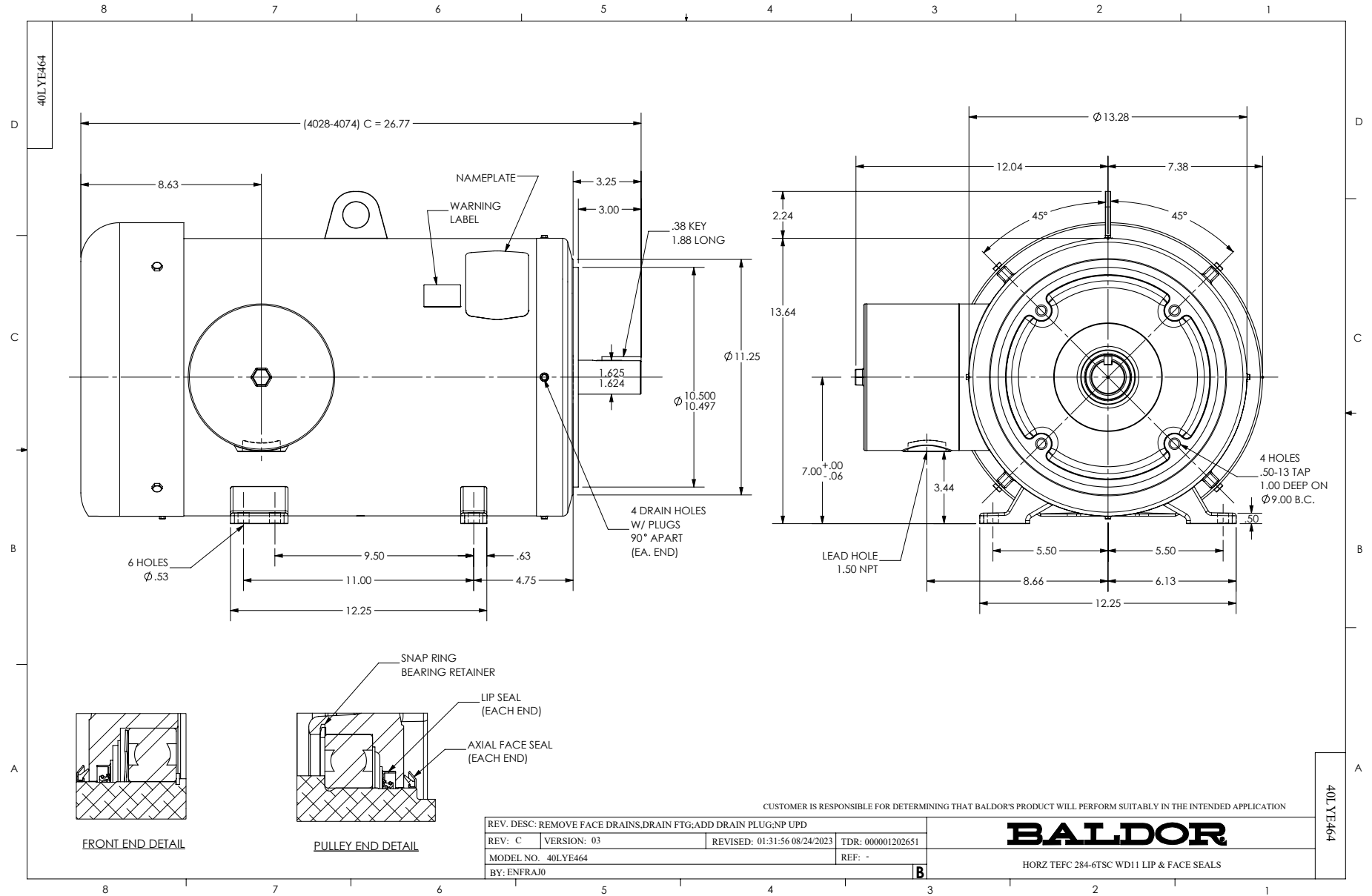
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=166 PU=71.9 LR=99.7 LRA=293

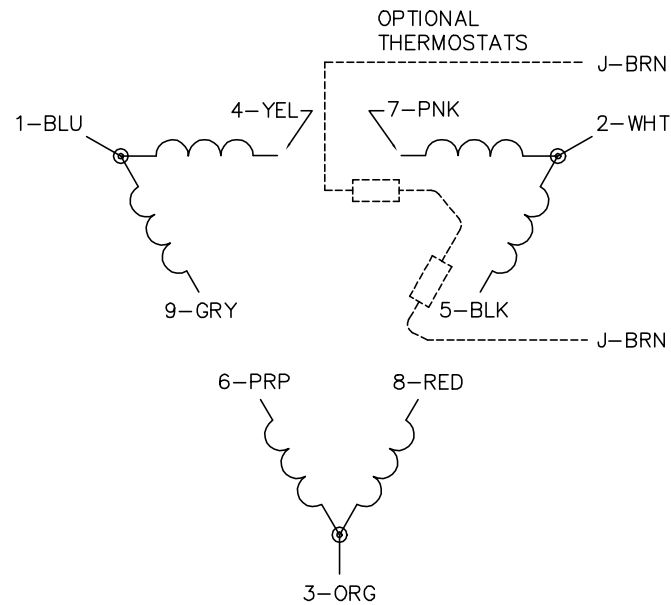


11/8/2024 ACPERF, record # 75424

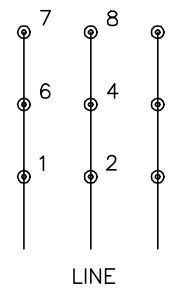




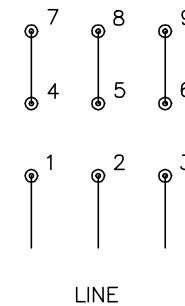
CD0180



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

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**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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