ABB BALDOR RELIANCE

Customer information packet

CFSWDM41900T

15HP, 1180RPM, 3PH, 60HZ, 284TC, 4072M, TEFC, F

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Specifications

Enclosure	TEFC
Frame	284TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	NEMA PREMIUM
	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	20.000 A @ 460.0 V
	40.000 A @ 230.0 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	20.0 a
Insulation Class	H

Part Detail

Revision	K
Type	AC
Mech. spec.	40E429
Base	
Status	PRD/A
Elec. spec.	40WGX382
Layout	40LYE429
Eff. date	09-22-2023
CD Diagram	CD0180
Poles	06
Leads	9#10 Y
Proprietary	False
Created date	06-06-2017

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4072M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.14 IN
Power Factor	78
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 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

NP4427AAA05												
CAT #	CFSWDM41900T					**LBS**						
SPEC	40E429X382G1					**ENCL**	TEFC					
SER #						**CC**	010A	**IP**	69			
HP	15			**MAG CUR**		18.6/9.3						
VOLTS	230/460							**NEMA NOM. EFF**			91.7	
AMPS	40/20						**PF**	78				
RATING	40C AMB-CONT											
RPM	1180					**MAX RPM**	1800					
FRAME	284TC	**HZ**	60		**CODE**	H	**CLASS**	H				
SER.F.	1.15	**SF AMP**				**PH**	3	**DES**	A			
DE	6311			**ODE**	6311							
LUBRICATION	POLYREX EM											
ID LOGO	**VPWM**	**CHP**	60	**TO**	90	1.5:1						
ID LOGO	**WK2**	8.82	**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
SA343128	SA 40E429X382G1	1.000 ea
RA331572	RA 40E429X382G1	1.000 ea
09FN3001B02	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	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
10XN2520S08	SCREW, 1/4-20 X 1/2 HHCS SS	4.000 ea
HW2502H28	#303 SS,SQ KEY 1/2 X 3.250	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
MJ1000B13	PETROLATUM, OR PETROLEUM JELLY	0.010 oz
HA5027A09	DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL	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
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
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW5100A13	W4627-047 WVY WSHER	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

MJ1000A02	GREASE, POLYREX EM EXXON	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 (2500 bx)11/25	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 # 68283
Typical performance - not guaranteed values

Winding: 40WGX382-R001	**Type:** 4072M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		15	**Full Load Torque**	66.92 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		40/20	**Breakdown Torque**	207 LB-FT
R.P.M.		1180	**Pull-up Torque**	101 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	125 LB-FT
NEMA Design Code	A **KVA Code**	H	**Starting Current**	127 A
Service Factor (S.F.)		1.15	**No-load Current**	9.3 A
NEMA Nom. Eff.	91.7 **Power Factor**	78	**Line-line Res. @ 25ºC**	0.49611 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	49°C
S.F. Amps			**Temp. Rise @ S.F. Load**	59°C
			Locked-rotor Power Factor	30.2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	60	72	78	80	82	79
Efficiency	88.7	92.7	93.4	93.2	92.7	91.8	92.9
Speed	1195.1	1191.1	1186.7	1181.9	1176.7	1170.8	1179
Line amperes	10.3	12.6	15.8	19.5	23.6	28.2	22

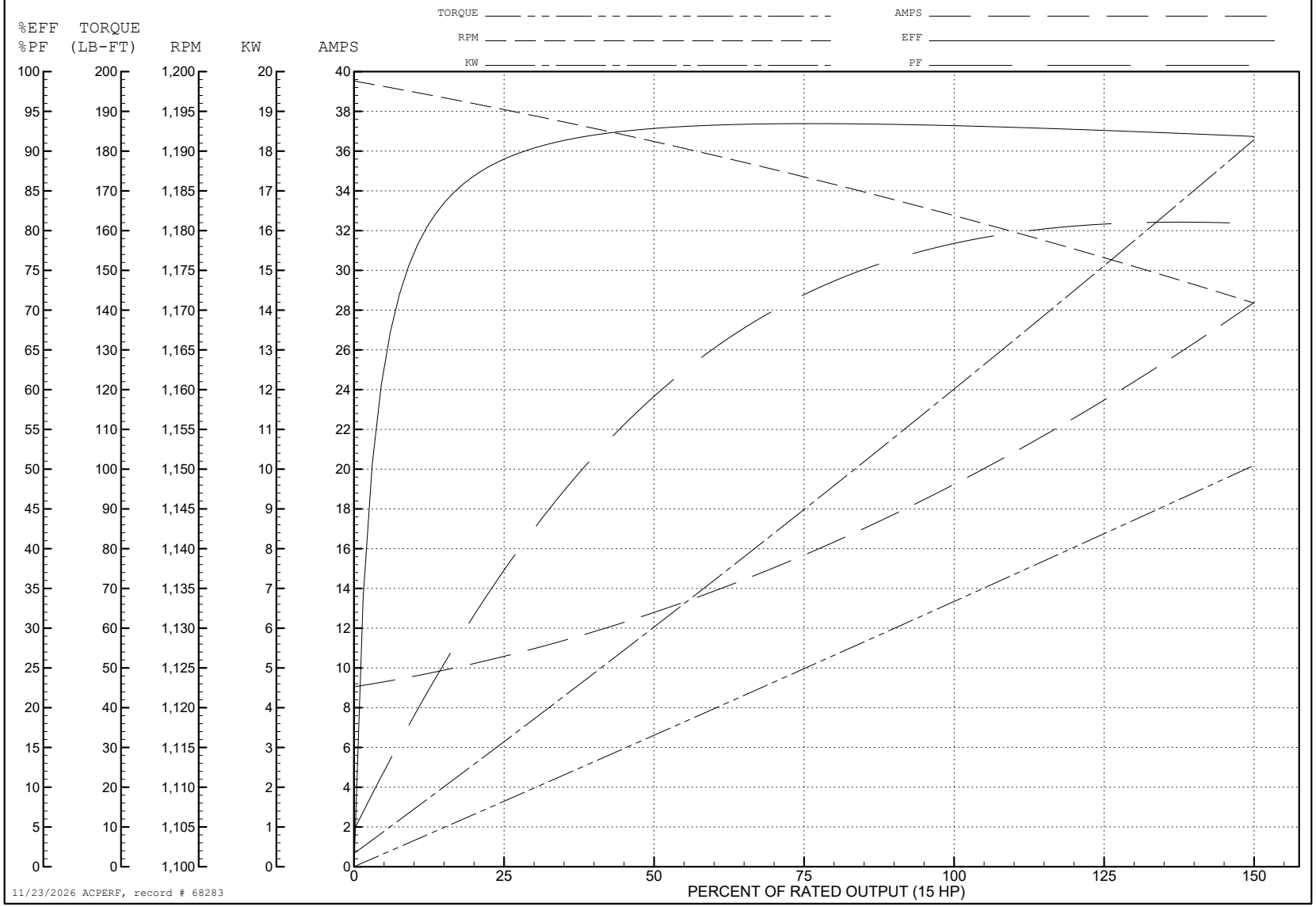
ABB Motors and Mechanical Inc.

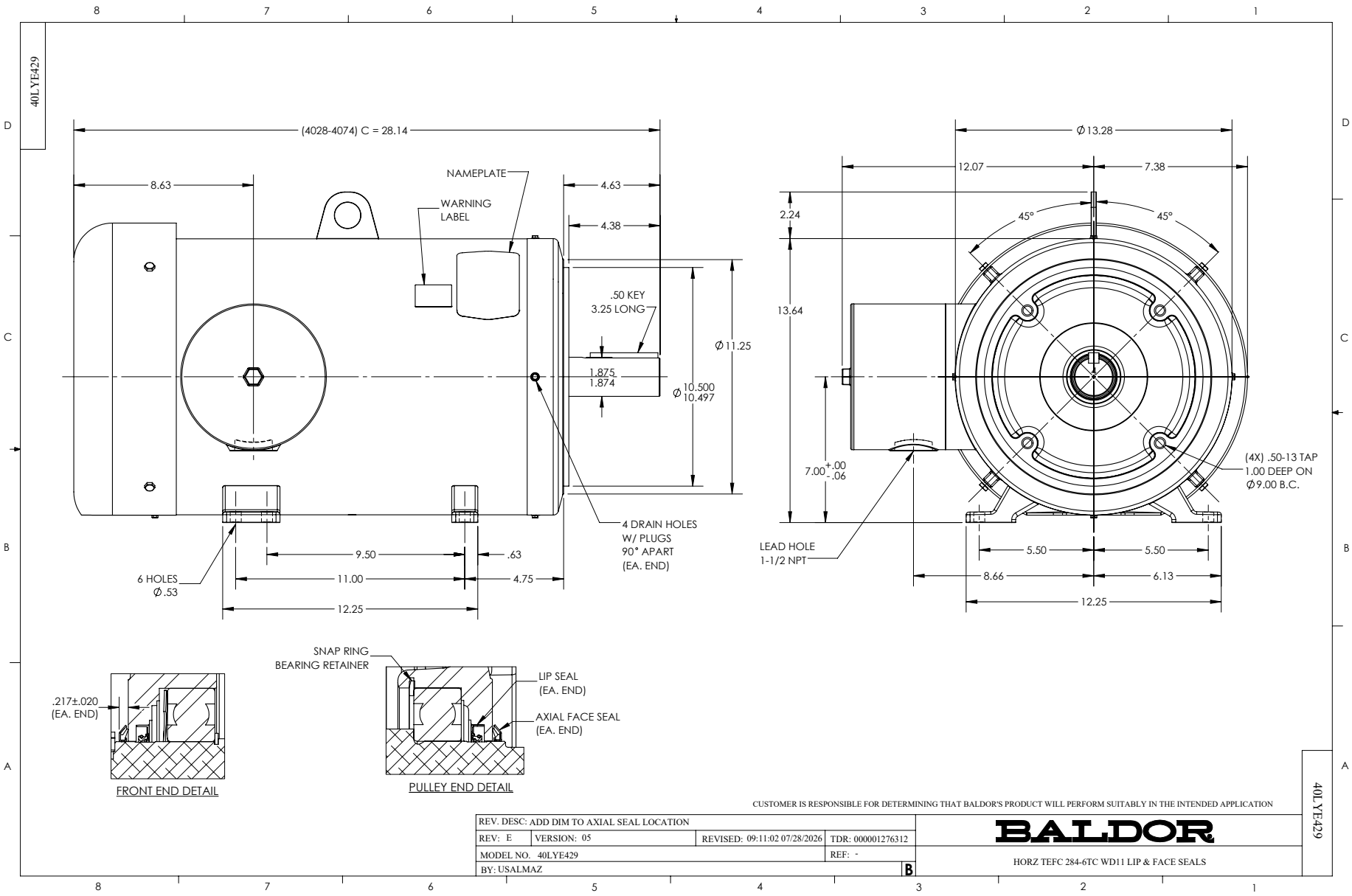
WINDING # 40WGX382

15 HP 3 PH 60 HZ 1180 RPM 460 V 4072M

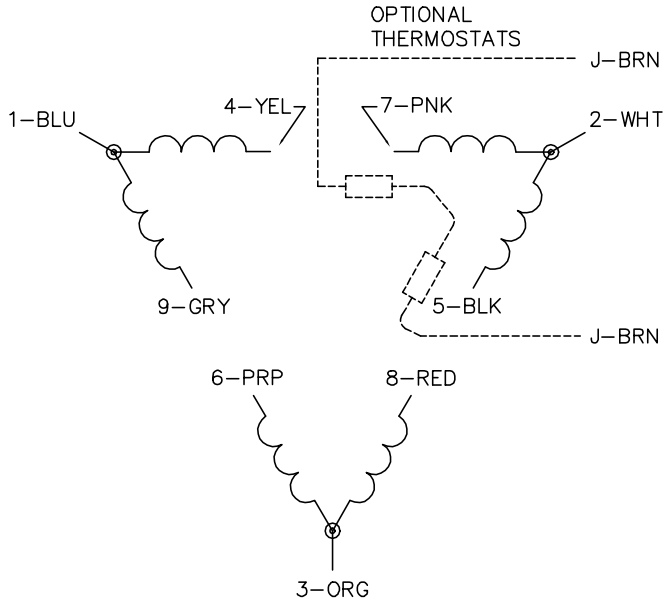
Typical performance - not guaranteed values.

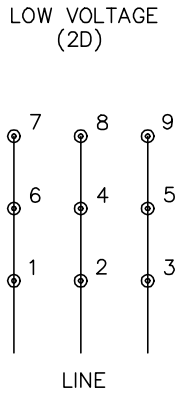
TORQUES(LB-FT): PO=207 PU=101 LR=125 LRA=127

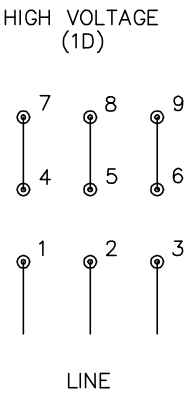



40LYE429
(4028-4074) C = 28.14
8.63
NAMEPLATE
WARNING LABEL
4.63
4.38
.50 KEY
3.25 LONG
Ø11.25
1.875
1.874
Ø10.500
10.497
4 DRAIN HOLES
W/ PLUGS
90° APART
(EA. END)
6 HOLES
Ø.53
9.50
.63
11.00
4.75
12.25
Ø13.28
12.07
7.38
2.24
45°
45°
13.64
7.00 +.00 -.06
(4X) .50-13 TAP
1.00 DEEP ON
Ø9.00 B.C.
LEAD HOLE
1-1/2 NPT
5.50
5.50
8.66
6.13
12.25
SNAP RING
BEARING RETAINER
LIP SEAL
(EA. END)
AXIAL FACE SEAL
(EA. END)
.217±.020
(EA. END)
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: E
VERSION: 05
REVISED: 09:11:02 07/28/2026
TDR: 000001276312
MODEL NO. 40LYE429
REF: -
BY: USALMAZ
B
BALDOR
HORZ TEFC 284-6TC WD11 LIP & FACE SEALS
40LYE429

CD0180







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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REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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