BALDOR • RELIANCE

Customer information packet

GNEM4100T-G

15HP//11KW, 1180//980RPM, 3PH, 60//50HZ, 284
Class - None
Division - Not Applicable

6/13/2024 3:34:06 AM

Specifications

Enclosure	TEFC
Frame	284T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
	11.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CE
	WEEE
	UKCA
	CURUSEEV
	IE3
	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	46.000 A @ 190.0 V
	42.000 A @ 208.0 V
	40.000 A @ 230.0 V
	23.000 A @ 380.0 V

Part detail

Revision	A
Type	AC
Mech. spec.	10H279
Base	
Status	PRD/A
Elec. spec.	10WGZ893
Layout	10LYH279
Eff. date	04-26-2024
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	11-29-2023

	20.000 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	20.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.76 IN
Power Factor	7 7
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

Speed	1180 rpm
	980 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

NP4304L									
CAT.NO.	GNEM4100T-G								
SPEC.	10H279Z893G1								
HP	15HP//11KW				**PH**	3			
VOLTS	208-230/460//190/380								
AMPS	44-42/21//48/24								
R.P.M. (1/MIN)	1180//980				**WT.**	451	**KG**		
FRAME	284T	**HZ**	60//50		**I.P.**	54			
SER.F.	1.15	**CODE**	K	**DES.**	A	**CLASS**	H		
NOM.EFF.	91.7//90.3	**% (100%)**							
P.F.	72	IC411, 10:1 VT							
RATING	40C AMB-CONT			**CC**	010A				
DE	6311	**ODE**	6309						
ENCL	TEFC	**SN**							
	IE3-50HZ 92.8(75%),92.2(50%)								
	IE3-60HZ 92.9(75%),91.6(50%)								
	SFA 49-48/24//52/26								

AC Induction Motor Performance Data
Record # 105126
Typical performance - not guaranteed values

Winding: 10WGZ893-R002	**Type:** 1064M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15HP//11KW	**Full Load Torque**	66.34 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			44-42/21//48/24	**Breakdown Torque**	233 LB-FT
R.P.M.			1180//980	**Pull-up Torque**	93 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	133 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	154 A
Service Factor (S.F.)			1.15	**No-load Current**	11.8 A
NEMA Nom. Eff.	91.7	**Power Factor**	72	**Line-line Res. @ 25ºC**	0.43546 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps			49-48/24//52/26	**Temp. Rise @ S.F. Load**	40°C
				Locked-rotor Power Factor	29.9
				Rotor inertia	7.84 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	65	72	76	79	74
Efficiency	86.3	91.6	92.9	93.2	93	92.4	93.1
Speed	1197.8	1195	1191.2	1188.4	1184.8	1180.4	1186
Line amperes	12.7	14.7	17.5	20.9	24.7	28.9	23.2

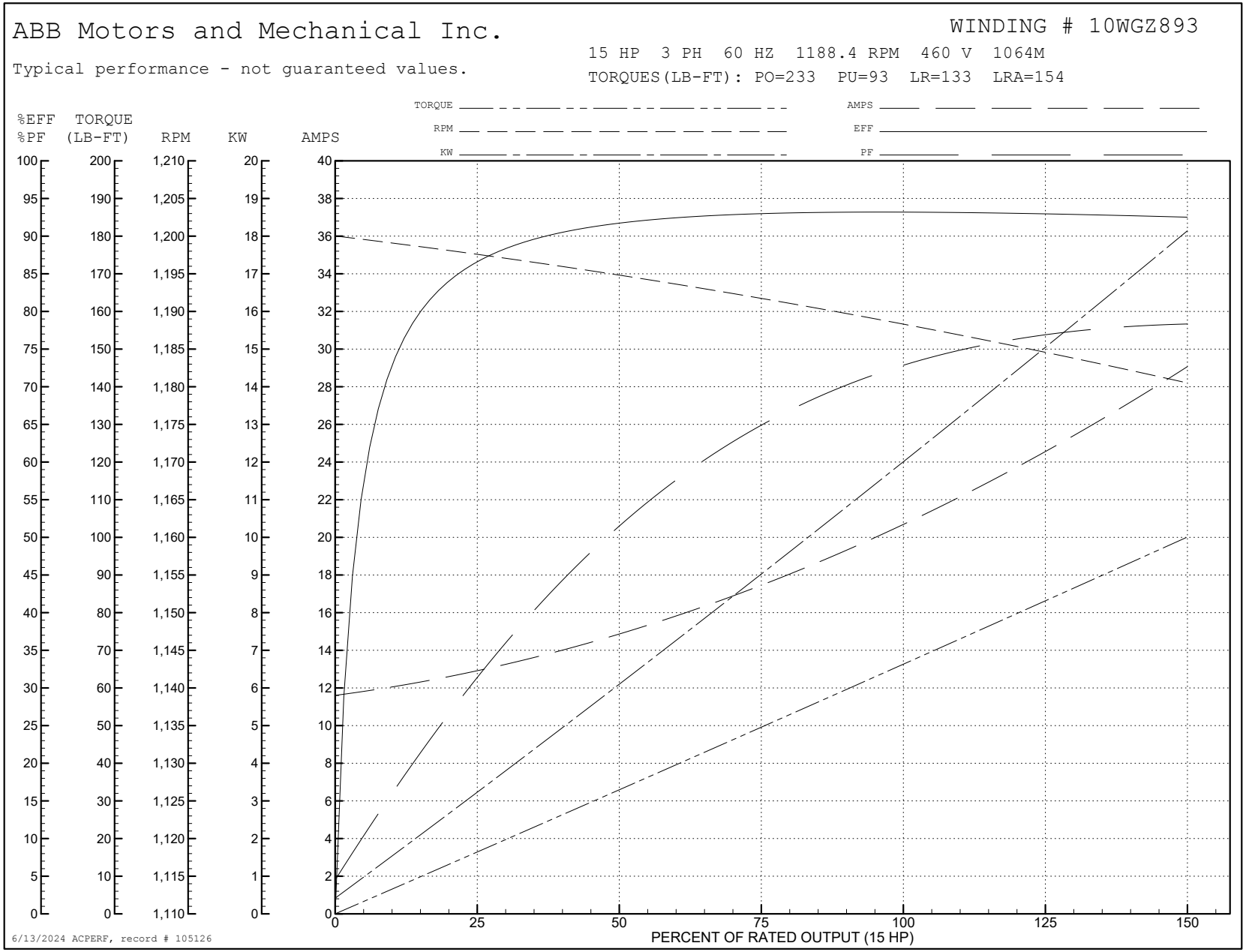


ABB Motors and Mechanical Inc.
WINDING # 10WGZ893
Typical performance - not guaranteed values.
15 HP 3 PH 60 HZ 1188.4 RPM 460 V 1064M
TORQUES(LB-FT): PO=233 PU=93 LR=133 LRA=154
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
6/13/2024 ACPERF, record # 105126

AC Induction Motor Performance Data
Record # 105127
Typical performance - not guaranteed values

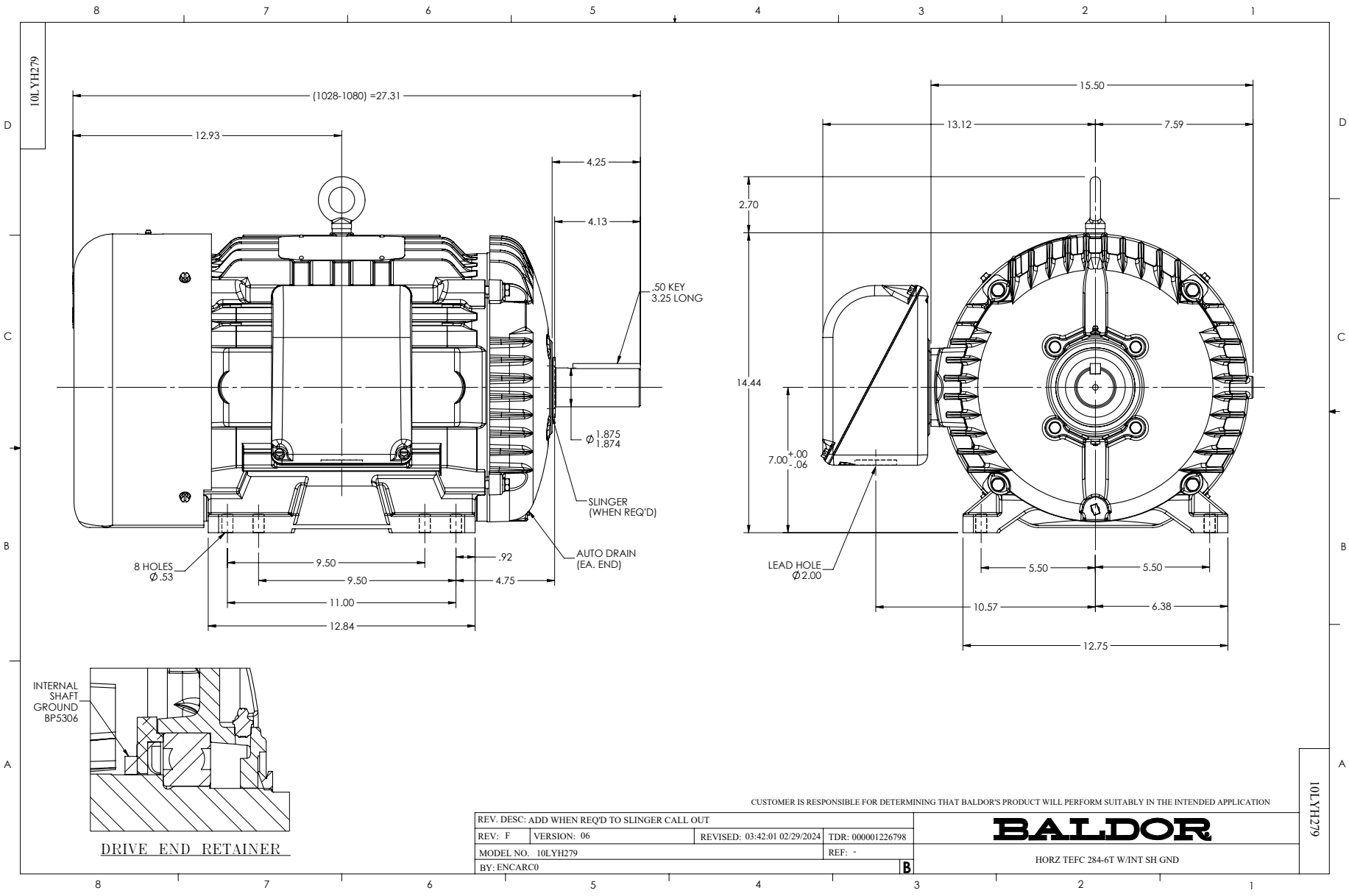
Winding: 10WGZ893-R002	**Type:** 1064M	**Enclosure:** TEFC

Nameplate Data				**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			15HP//11KW	**Full Load Torque**	80.24 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			44-42/21//48/24	**Breakdown Torque**	232 LB-FT
R.P.M.			1180//980	**Pull-up Torque**	125 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	141 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	154 A
Service Factor (S.F.)			1.15	**No-load Current**	11.6 A
NEMA Nom. Eff.	91.7	**Power Factor**	72	**Line-line Res. @ 25ºC**	0.43826 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps			49-48/24//52/26	**Temp. Rise @ S.F. Load**	49°C
				Locked-rotor Power Factor	33.2
				Rotor inertia	7.84 lb-ft²

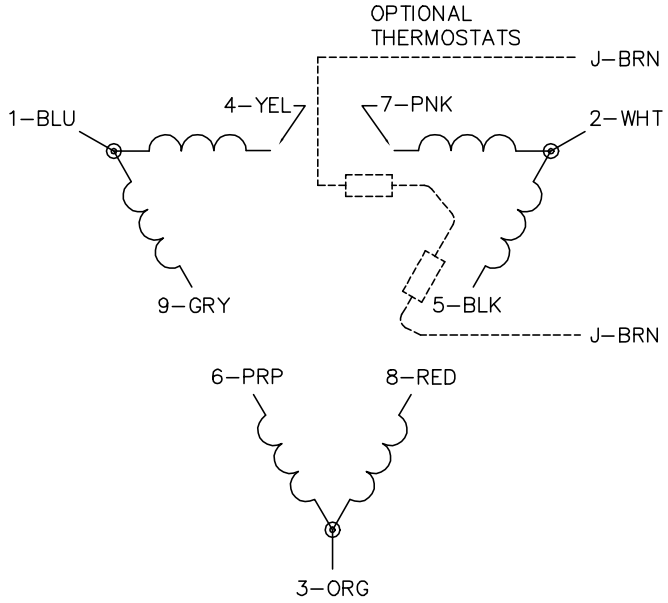
Load Characteristics 380 V, 50 Hz, 15 HP

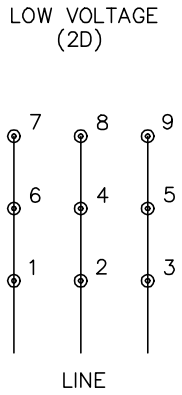
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	59	71	77	79	79	78
Efficiency	88.3	92.2	92.8	92.4	91.9	91.5	92.1
Speed	996	992	987.7	983	980.1	977.9	981
Line amperes	12.9	15.7	19.5	24.1	27.1	29.3	25.9

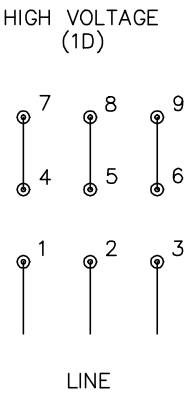

ABB Motors and Mechanical Inc.
WINDING # 10WGZ893
15 HP 3 PH 50 HZ 983 RPM 380 V 1064M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=232 PU=125 LR=141 LRA=154
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
6/13/2024 ACPERF, record # 105127


10LYH279
(1028-1080) =27.31
12.93
4.25
4.13
.50 KEY
3.25 LONG
Ø 1.875
1.874
SLINGER
(WHEN REQ'D)
AUTO DRAIN
(EA. END)
8 HOLES
Ø .53
9.50
.92
9.50
4.75
11.00
12.84
15.50
13.12
7.59
2.70
14.44
7.00 +.00 -.06
LEAD HOLE
Ø 2.00
5.50
5.50
10.57
6.38
12.75
INTERNAL
SHAFT
GROUND
BP5306
DRIVE END RETAINER
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD WHEN REQ'D TO SLINGER CALL OUT
REV: F
VERSION: 06
REVISED: 03:42:01 02/29/2024
TDR: 000001226798
MODEL NO. 10LYH279
REF: -
BY: ENCARC0
B
BALDOR
HORZ TEFC 284-6T W/INT SH GND
10LYH279

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

REV. DESC: ADD CLASS CONN00000007		
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

SH 1 of 1