ABB BALDOR RELIANCE

Customer information packet

EGDM2513T

15HP, 1765RPM, 3PH, 60HZ, 254TZ, 3948M, OPSB, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	254TZ
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	UR
	CSA
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	36.000 A @ 230.0 V
	38.000 A @ 208.0 V
	18.000 A @ 460.0 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

Part Detail

Revision	Q
Type	AC
Mech. spec.	39N074
Base	
Status	PRD/A
Elec. spec.	39WGY375
Layout	39LYN074
Eff. date	11-27-2024
CD Diagram	CD0180
Poles	04
Leads	9#12
Proprietary	False
Created date	10-02-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3948M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.19 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	Included
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	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3126L										
CAT.NO.	EGDM2513T									
SPEC.	39N074Y375G1									
HP	15									
VOLTS	230/460									
AMP	36.4/18.2									
RPM	1770									
FRAME	254TZ	**HZ**	60				**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F			
NEMA-NOM-EFF	93	**PF**	83							
RATING	40C AMB-CONT									
CC	010A									
DE	6309	**ODE**	6208							
ENCL	OPSB	**SN**								

Parts List

Part number	Description	Quantity
SA345599	SA 39N074Y375G1	1.000 ea
RA334087	RA 39N074Y375G1	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 ea
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
39EP3200A06	FR ENDPLATE, 208 BRG., NO GREASER	1.000 ea
HA1101A03	RODENT SCREEN, 39 FACE MTD.E.P.	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
39EP3201A14	PU ENDPLATE, MACH	1.000 ea
HA1101A03	RODENT SCREEN, 39 FACE MTD.E.P.	1.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 ea
HA3154A03	STUD, 3/8-16 X 17.75	4.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP3126L	ALUM FARM DUTY SUPER-E UL CSA-EEV PREM	1.000 ea
39PA1000	PACKAGING GROUP 39 PRINT	1.000 ea
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 ea

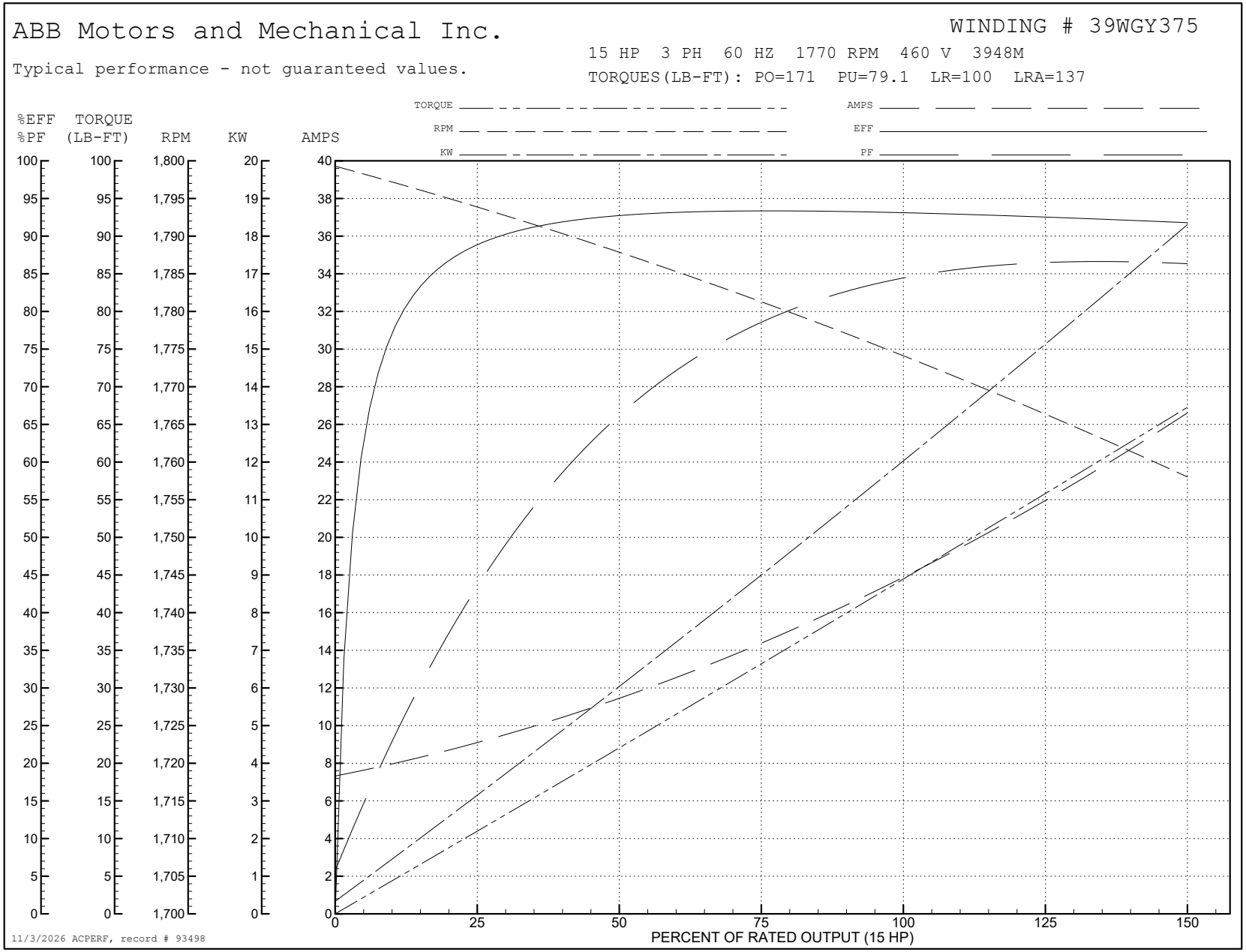
AC Induction Motor Performance Data
Record # 93498
Typical performance - not guaranteed values

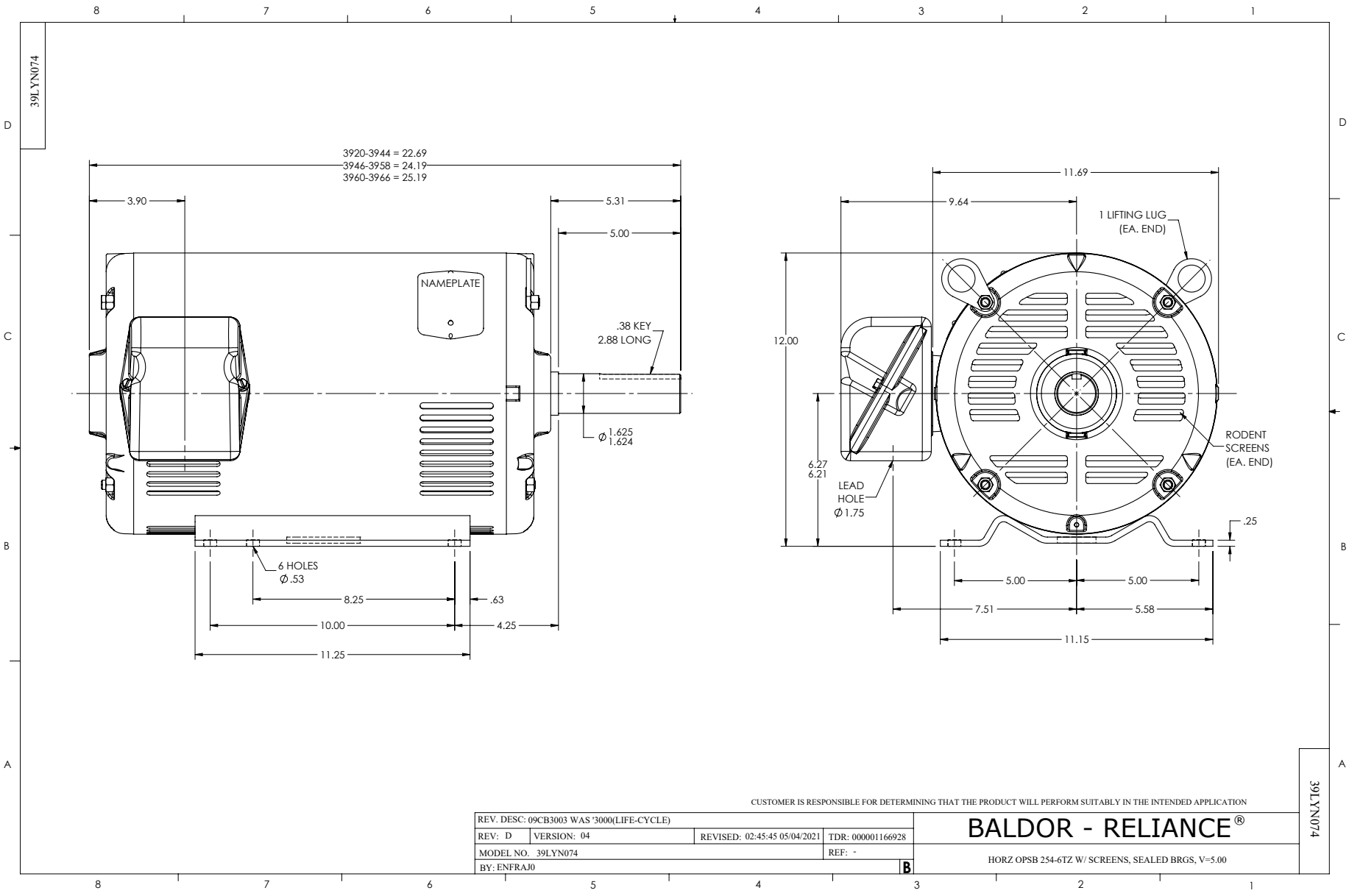
Winding: 39WGY375-R001	**Type:** 3948M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	44.57 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			36/18	**Breakdown Torque**	171 LB-FT
R.P.M.			1770	**Pull-up Torque**	79.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	100 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	137 A
Service Factor (S.F.)			1.15	**No-load Current**	7.62 A
NEMA Nom. Eff.	93	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.5794 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	29°C
S.F. Amps				**Temp. Rise @ S.F. Load**	35°C
				Locked-rotor Power Factor	32.8

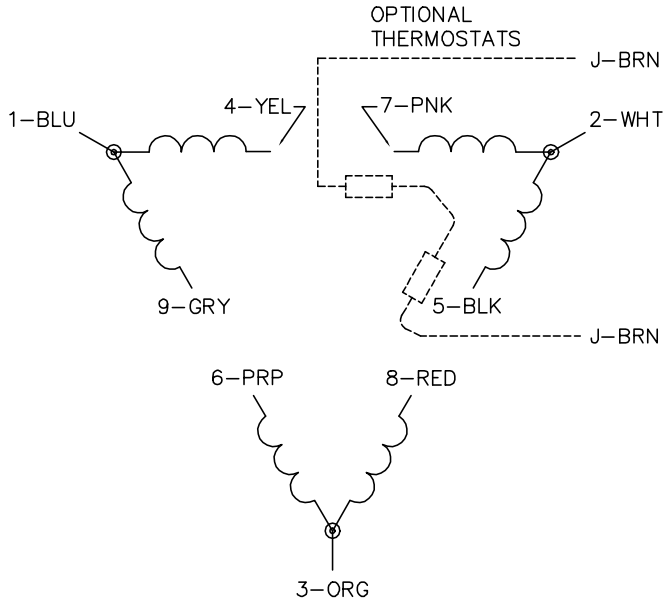
Load Characteristics 460 V, 60 Hz, 15 HP

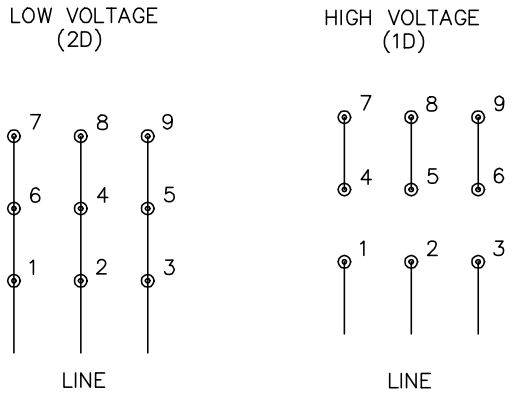
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	68	78	83	86	87	85
Efficiency	88.6	92.6	93.3	93.1	92.5	91.7	92.7
Speed	1794.2	1788	1781.2	1773.7	1766.3	1758.2	1769
Line amperes	8.77	11.2	14.5	18.2	22.1	26.4	20.5


ABB Motors and Mechanical Inc.
WINDING # 39WGY375
15 HP 3 PH 60 HZ 1770 RPM 460 V 3948M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=171 PU=79.1 LR=100 LRA=137
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/3/2026 ACPERF, record # 93498


39LYN074
3920-3944 = 22.69
3946-3958 = 24.19
3960-3966 = 25.19
3.90
5.31
5.00
NAMEPLATE
.38 KEY
2.88 LONG
Ø 1.625
1.624
6 HOLES
Ø .53
8.25
.63
10.00
4.25
11.25
11.69
9.64
1 LIFTING LUG
(EA. END)
12.00
6.27
6.21
LEAD
HOLE
Ø 1.75
RODENT
SCREENS
(EA. END)
.25
5.00
5.00
7.51
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: 09CB3003 WAS '3000(LIFE-CYCLE)
REV: D
VERSION: 04
REVISED: 02:45:45 05/04/2021
TDR: 000001166928
MODEL NO. 39LYN074
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ OPSB 254-6TZ W/ SCREENS, SEALED BRGS, V=5.00
39LYN074

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