ABB BALDOR RELIANCE

Customer information packet

JMEWDM23933T

15HP, 1765RPM, 3PH, 60HZ, 254JM, 3942M, TEFC, F
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254JM
Frame Material	Steel
Frequency	60.00 Hz
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
	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	18.000 A @ 460.0 V
	36.000 A @ 208.0 V
	36.000 A @ 230.0 V
Design Code	A
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
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AC
Type	AC
Mech. spec.	39K68
Base	
Status	PRD/A
Elec. spec.	39WGW595
Layout	39LYK068
Eff. date	07-31-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	12-05-2014

High Voltage Full Load Amps	18.0 a
Insulation Class	F
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 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3942M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.06 IN
Power Factor	84
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.750 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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

NP1669L									
CAT.NO.	JMEWDM23933T								
SPEC.	39K068W595G1								
HP	15								
VOLTS	230/460								
AMP	36/18								
RPM	1765								
FRAME	254JM	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	92.4	**PF**	84						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6208						
ENCL	TEFC	**SN**							
BLANK	20:1CT, 20:1VT, 1.00SF								

Parts List

Part number	Description	Quantity
SA290804	SA 39K068W595G1	1.000 ea
RA276959	RA 39K068W595G1	1.000 ea
HA6016P	ADAPTER, CAST CONDUT BOX EPOXY PRIMER	1.000 ea
09GS1006	GASKET, CONDUIT BOX, NEOP-1/16 THICK-BLA	1.000 ea
09CB3002A01P	CB MACH - 1.25 N.P.T. LEAD HOLE W/EPOXY	1.000 ea
09GS1017	GASKET, CONDUIT BOX, .125 THICK BLACK NE	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 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
39EP1100A08WP	FR ENDPLATE, MACH W/WHITE EPOXY, PRIMED	1.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN2520S28	1/4-20X 1 3/4 HEX HD SS X	4.000 ea
39EP1500A06P	PU ENDPLATE, MACH W/EPOXY PRIMER	1.000 ea
HW4600A27	SEAL 1.750 X 2.441 X 0.313 SINGLE LIP	1.000 ea
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 ea
HA3154S02	THRUBOLT STUD 3/8-16 X 15.875 SS	4.000 ea
XY3816S12	3/8-16 HEX FINISHED NUT SS	8.000 ea
HA2101A05	SS SPACER,SCH 40,.25" SS PIPE,.625" LONG	3.000 ea
10XN2520S20	1/4-20X 1 1/4 HEX HD CAP SS	3.000 ea
09CB3501P	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
12GS1002	GASKET, CONDUIT BOX LID, NEOP	1.000 ea
19XT2520S12	1/4-20X3/4 HWH NO SLOT TY.23 18-8 S.S.	2.000 ea
HW1001S25	WASHER, 1/4 SPLT LK, STAINLESS STEEL	2.000 ea
HW2502E18	#303 SS,SQ KEY 1/4 X 2.000	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.016 qt
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.025 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.085 lb
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.503 ID	1.000 ea

HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
09FH4000A23MWP	FAN COVER, MACH W/WHITE EPOXY	1.000 ea
MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
40PA1000	PACKAGING GROUP	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LD7020D09	LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS	1.000 ea

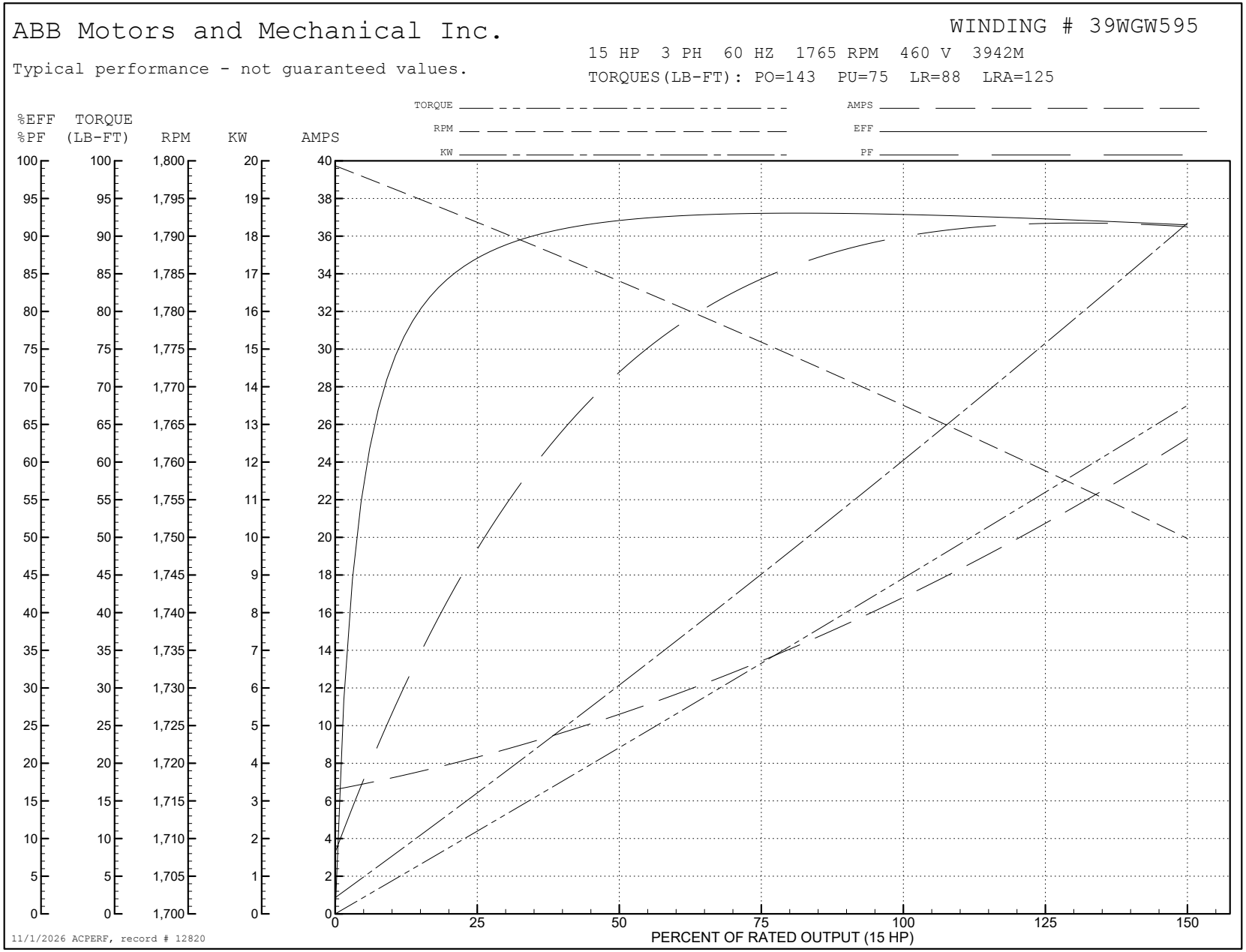
AC Induction Motor Performance Data
Record # 12820
Typical performance - not guaranteed values

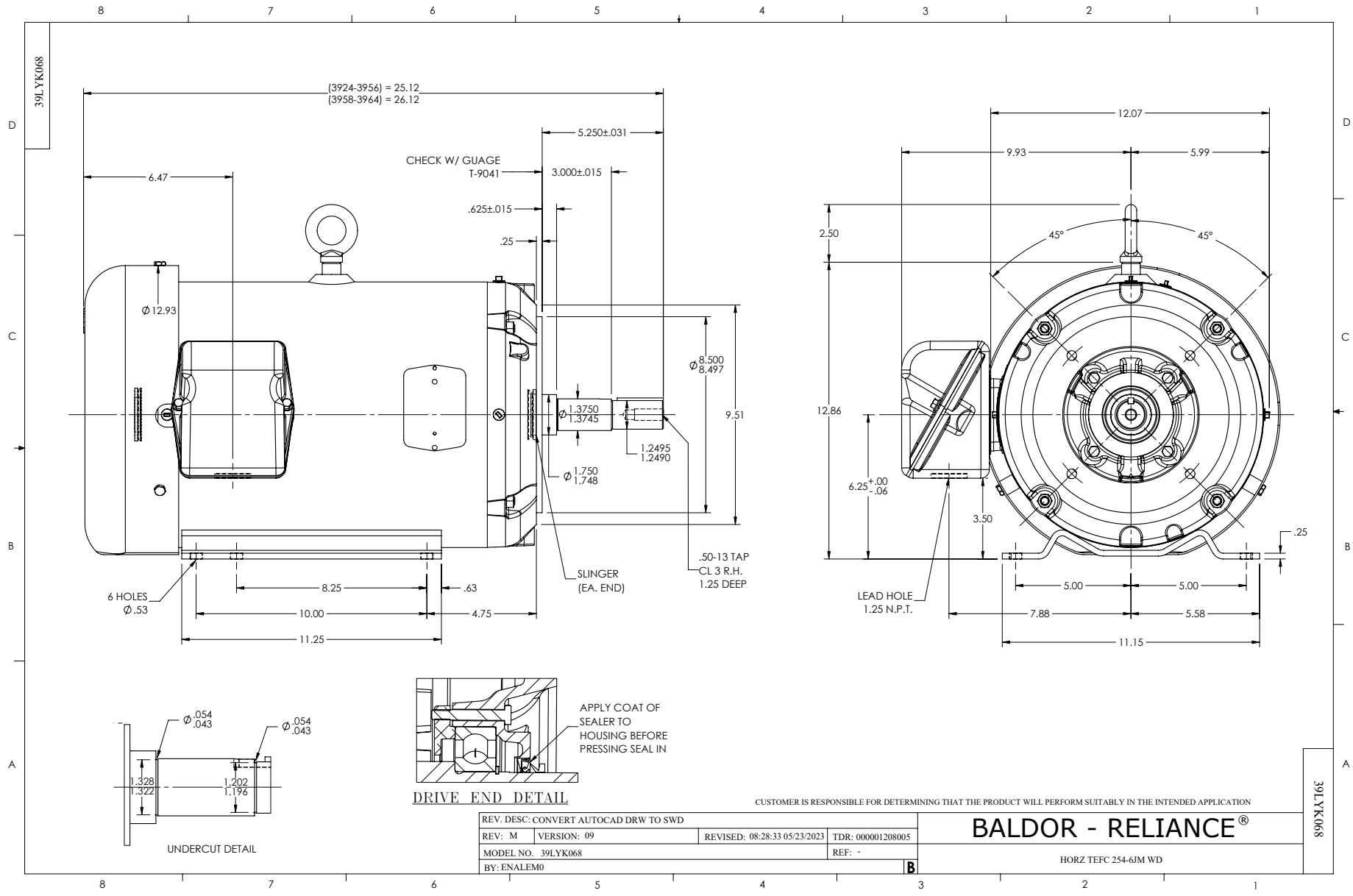
Winding: 39WGW595-R001	**Type:** 3942M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	45 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			36/18	**Breakdown Torque**	143 LB-FT
R.P.M.			1765	**Pull-up Torque**	75 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	88 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	125 A
Service Factor (S.F.)			1.15	**No-load Current**	6.95 A
NEMA Nom. Eff.	92.4	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.577 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	60°C
S.F. Amps				**Temp. Rise @ S.F. Load**	72°C
				Locked-rotor Power Factor	33.3
				Rotor inertia	1.84 lb-ft²

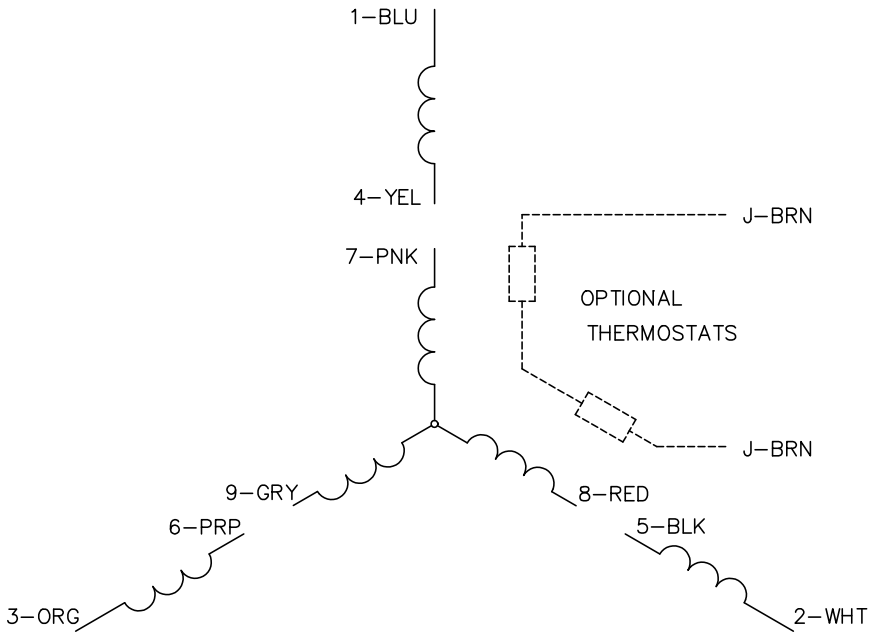
Load Characteristics 460 V, 60 Hz, 15 HP

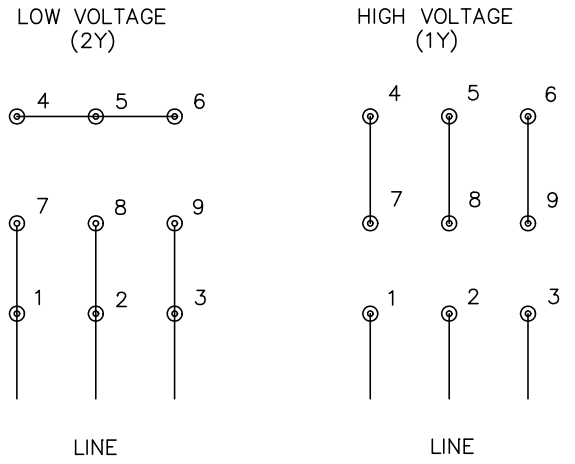
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	71	81	86	88	89	87
Efficiency	87.9	92.1	93	92.8	92.3	91.5	92.5
Speed	1792	1784	1776	1766	1759	1750	1762
Line amperes	7.9	10.5	13.7	17.2	21	25	19.5


ABB Motors and Mechanical Inc.
WINDING # 39WGW595
15 HP 3 PH 60 HZ 1765 RPM 460 V 3942M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=143 PU=75 LR=88 LRA=125
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/1/2026 ACPERF, record # 12820


39LYK068
(3924-3956) = 25.12
(3958-3964) = 26.12
5.250±.031
CHECK W/ GUAGE
T-9041
3.000±.015
.625±.015
.25
6.47
Ø12.93
Ø8.500
8.497
Ø1.3750
1.3745
1.2495
1.2490
Ø1.750
1.748
9.51
6 HOLES
Ø.53
8.25
.63
10.00
4.75
11.25
SLINGER
(EA. END)
.50-13 TAP
CL 3 R.H.
1.25 DEEP
12.07
9.93
5.99
2.50
45°
45°
12.86
6.25 +.00 -.06
3.50
.25
LEAD HOLE
1.25 N.P.T.
5.00
5.00
7.88
5.58
11.15
Ø.054
.043
Ø.054
.043
1.328
1.322
1.202
1.196
UNDERCUT DETAIL
APPLY COAT OF
SEALER TO
HOUSING BEFORE
PRESSING SEAL IN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD
REV: M
VERSION: 09
REVISED: 08:28:33 05/23/2023
TDR: 000001208005
MODEL NO. 39LYK068
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6JM WD
39LYK068

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS