ABB BALDOR RELIANCE

Customer information packet

CWDM3543

.75HP, 1180RPM, 3PH, 60HZ, 56C, 3524M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	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	1.550 A @ 460.0 V
	2.900 A @ 208.0 V
	3.100 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a

Part Detail

Revision	C
Type	AC
Mech. spec.	35S588
Base	
Status	PRD/A
Elec. spec.	35WGG031
Layout	35LYS588
Eff. date	04-26-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	12.07 IN
Power Factor	55
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1496L											
CAT.NO.	CWDM3543										
SPEC.	35S588G031G2										
HP	.75										
VOLTS	230/460										
AMP	3.1/1.55										
RPM	1180										
FRAME	56C		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	81.7	**PF**	55								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	TENV	**SN**									
	SFA 3.3/1.65										

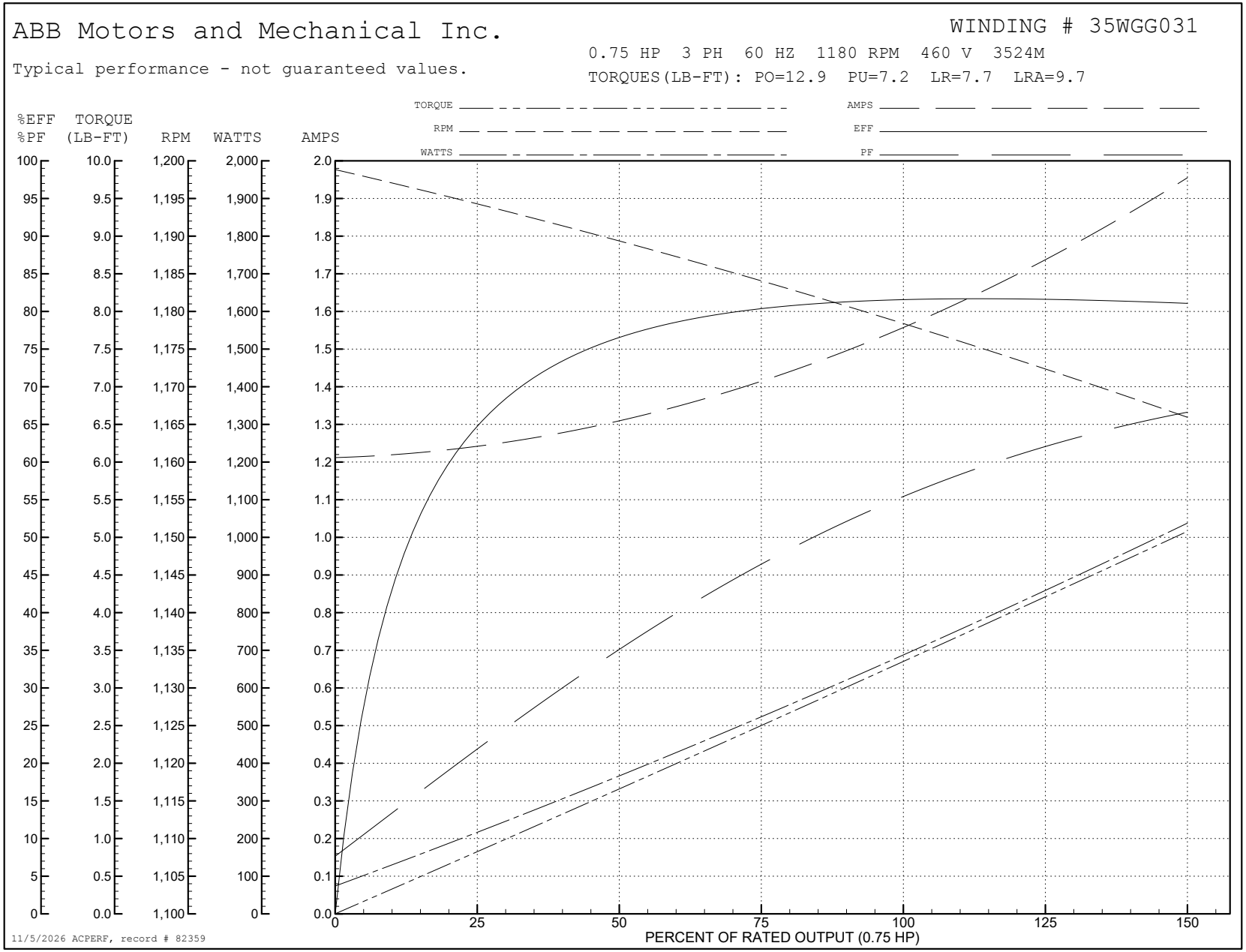
AC Induction Motor Performance Data
Record # 82359
Typical performance - not guaranteed values

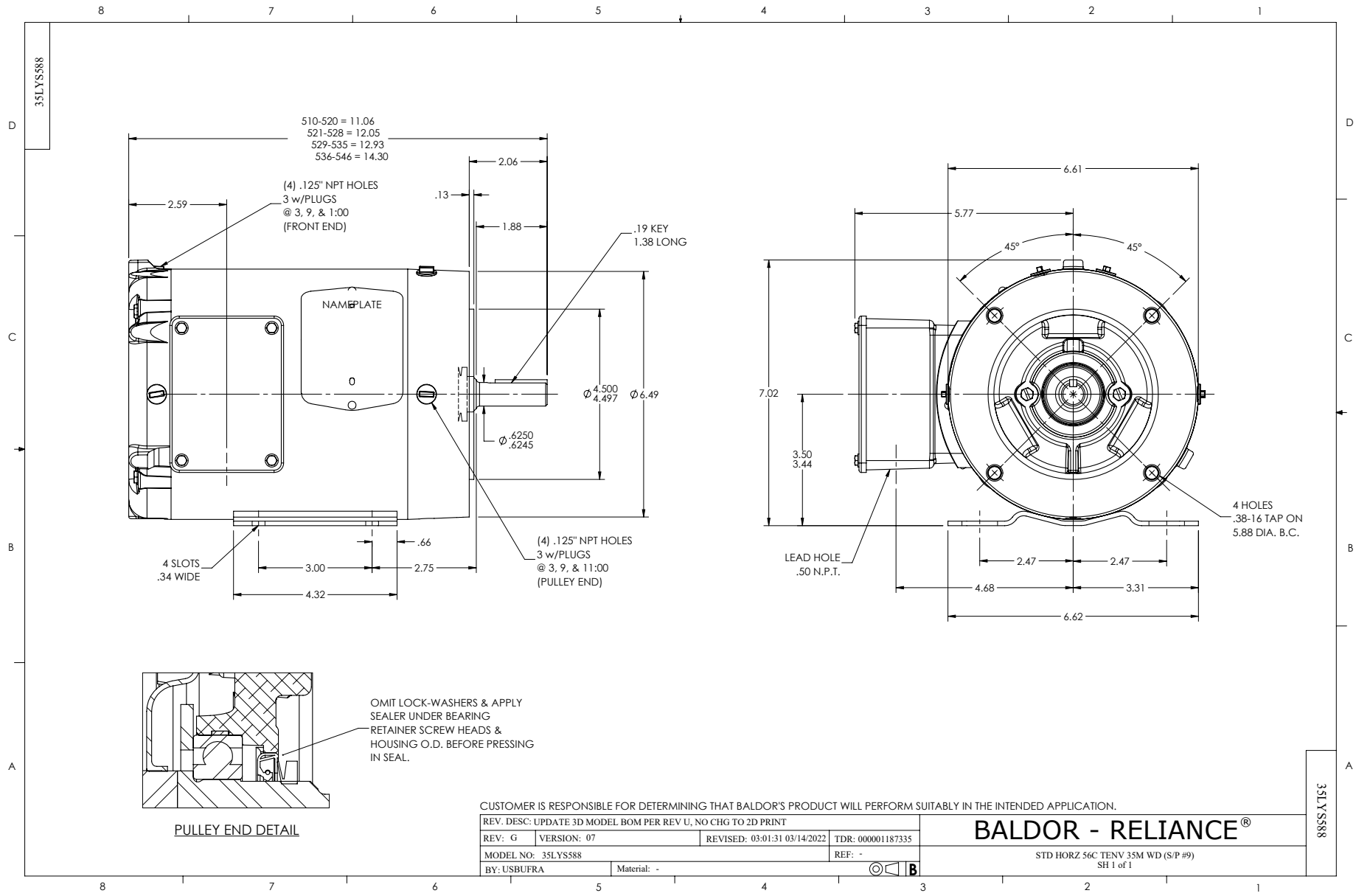
Winding: 35WGG031-R003	**Type:** 3524M	**Enclosure:** TENV

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.75	**Full Load Torque**	3.35 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		3.1/1.55	**Breakdown Torque**	12.9 LB-FT
R.P.M.		1180	**Pull-up Torque**	7.2 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	7.7 LB-FT
NEMA Design Code	B **KVA Code**	M	**Starting Current**	9.7 A
Service Factor (S.F.)		1.15	**No-load Current**	1.22 A
NEMA Nom. Eff.	81.7 **Power Factor**	55	**Line-line Res. @ 25ºC**	20.1 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps		3.3/1.65	**Temp. Rise @ S.F. Load**	38°C
			Locked-rotor Power Factor	50.5
			Rotor inertia	0.174 lb-ft²

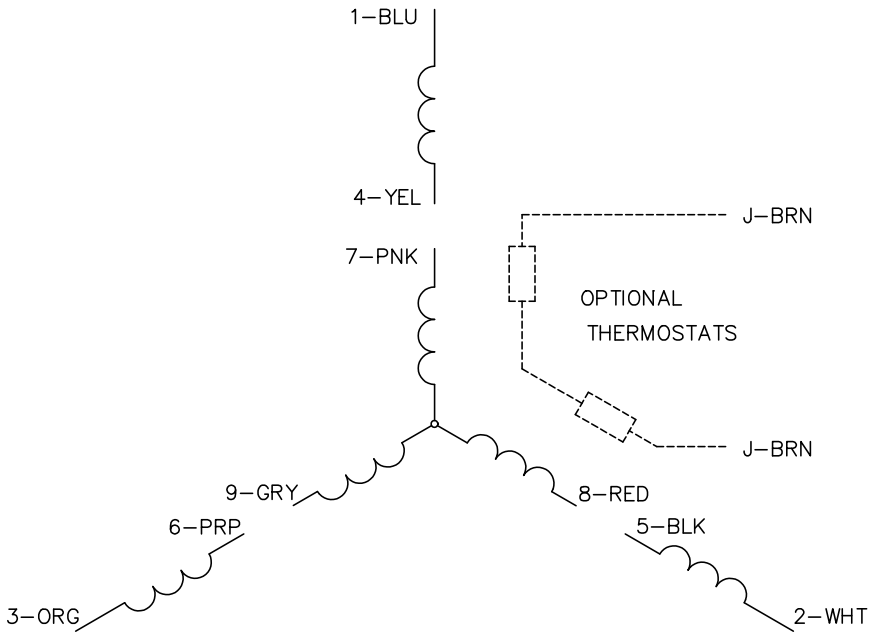
Load Characteristics 460 V, 60 Hz, 0.75 HP

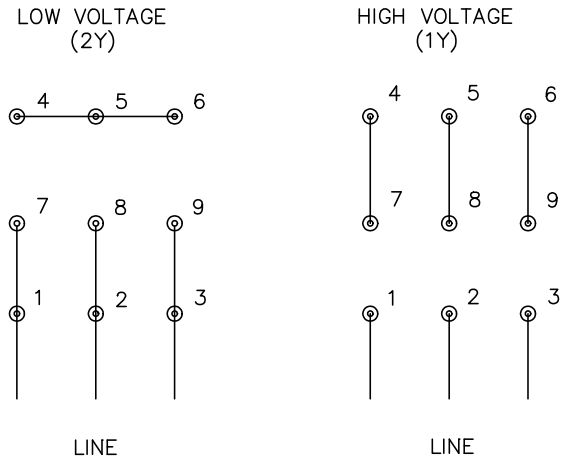
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	22	35	47	55	62	67	1
Efficiency	65	76	80	82	82	81	82.4
Speed	1194	1189	1184	1179	1172	1166	1170
Line amperes	1.23	1.31	1.42	1.56	1.74	1.95	1.47


ABB Motors and Mechanical Inc.
WINDING # 35WGG031
Typical performance - not guaranteed values.
0.75 HP 3 PH 60 HZ 1180 RPM 460 V 3524M
TORQUES(LB-FT): PO=12.9 PU=7.2 LR=7.7 LRA=9.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/5/2026 ACPERF, record # 82359


35LYS588
510-520 = 11.06
521-528 = 12.05
529-535 = 12.93
536-546 = 14.30
2.06
.13
1.88
2.59
(4) .125" NPT HOLES
3 w/PLUGS
@ 3, 9, & 1:00
(FRONT END)
.19 KEY
1.38 LONG
NAMEPLATE
Ø 4.500
4.497
Ø 6.49
Ø .6250
.6245
4 SLOTS
.34 WIDE
.66
3.00
2.75
4.32
(4) .125" NPT HOLES
3 w/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
6.61
5.77
45°
45°
7.02
3.50
3.44
LEAD HOLE
.50 N.P.T.
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
2.47
2.47
4.68
3.31
6.62
OMIT LOCK-WASHERS & APPLY
SEALER UNDER BEARING
RETAINER SCREW HEADS &
HOUSING O.D. BEFORE PRESSING
IN SEAL.
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: UPDATE 3D MODEL BOM PER REV U, NO CHG TO 2D PRINT
REV: G
VERSION: 07
REVISED: 03:01:31 03/14/2022
TDR: 000001187335
MODEL NO: 35LYS588
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD HORZ 56C TENV 35M WD (S/P #9)
SH 1 of 1
35LYS588

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