ABB BALDOR RELIANCE

Customer information packet

CENCP83580T-4

1HP, 3450RPM, 3PH, 60HZ, 143TC, 0520M, TENV, F1
Class - CLI GP A,B,C,D
Division - Division II

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/18/2026 3:56:45 AM

Specifications

Enclosure	TENV
Frame	143TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	CCSA US
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
Constant Torque Speed Range	1.8
Current @ Voltage	1.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AM
Type	AC
Mech. spec.	05F127
Base	
Status	PRD/A
Elec. spec.	05WGW634
Layout	05LYF127
Eff. date	04-30-2026
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	11-20-2007

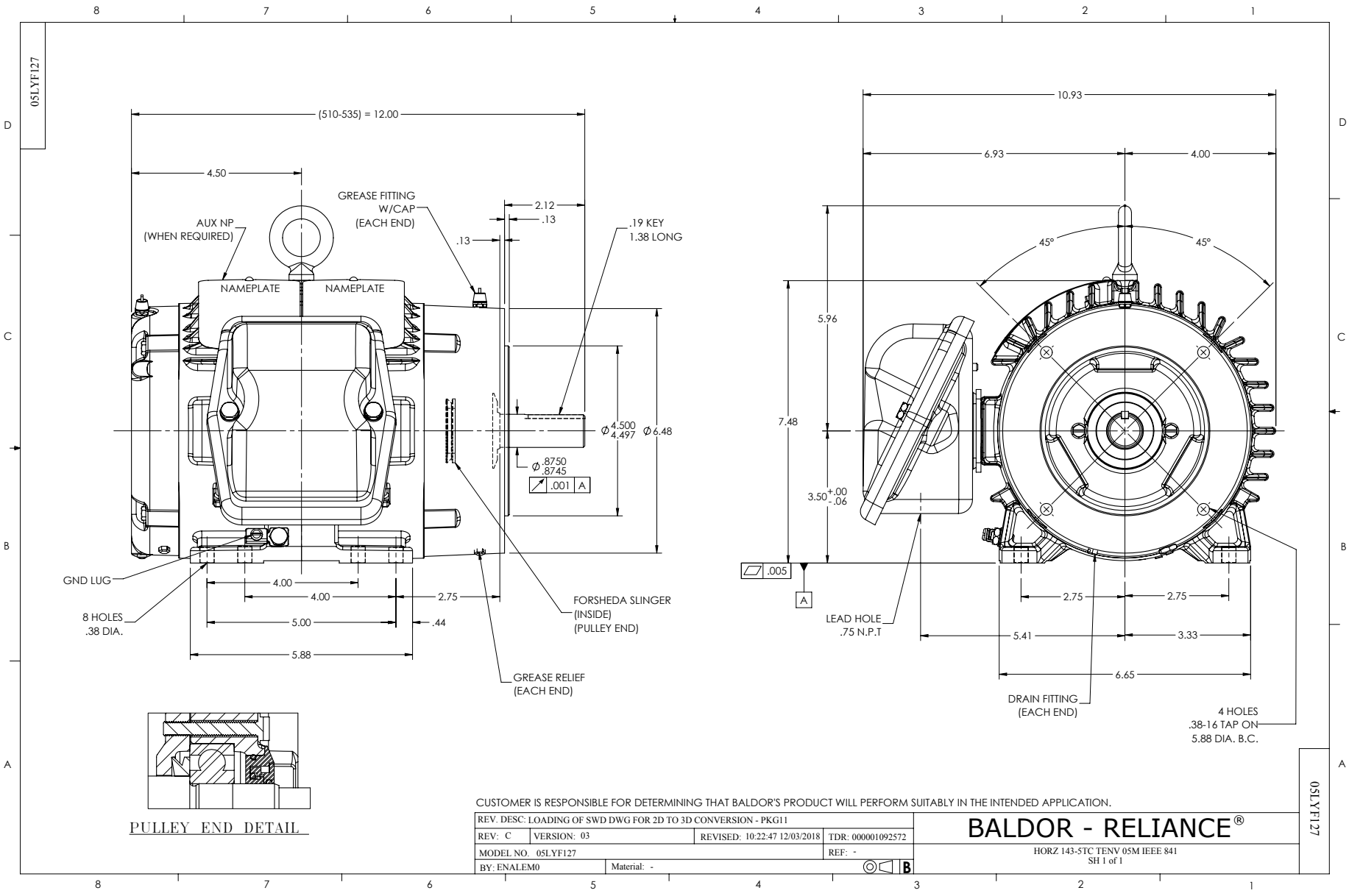
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	@ 0 AWG 3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.00 IN
Power Factor	88
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3490 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

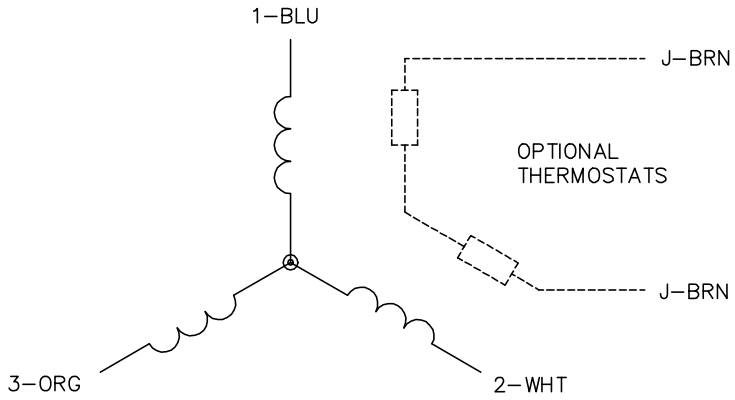
NP4328								
CAT.NO.	CENCP83580T-4							
SPEC.	05F127W634G2							
HP	1 TE		**IP**	56				
VOLTS	460							
AMPS	1.3							
R.P.M.	3490							
FRAME	143TC	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES.**	B	**CLASS**	F	
RATING	40C AMB-CONT							
SN								
DE	6205	**ODE**	6205					
NEMA NOM. EFF.	77	**P.F.**	88					
GUAR. MIN. EFF.	74	**CC**	010A					
T. CODE	T3C	**TEMP=**	160					

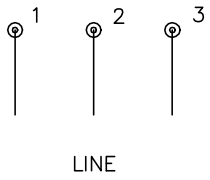
NP3186							
SPEC.	05F127W634G2						
ABMA DE BRG	25BC02X30X						
ABMA ODE BRG	25BC02XP30X						
GREASE	POLYREX EM						
MOTOR WEIGHT	61	**ROTOR BARS**	36	**STATOR BARS**	20		
MAX. R.P.M.	5400	**MAX. KVAR**	.05				
INV.TYPE	PWM						
T=	160						
CHP	60	**TO**	90				
CT	1.8	**TO**	60				
VT	-0	**TO**	60				
HTR-VOLTS	N/A	**HTR-AMPS**	N/A				
HTR-WATTS	N/A	**MAX. SPACE HEATER TEMP.**			N/A		


05LYF127
(510-535) = 12.00
4.50
GREASE FITTING W/CAP (EACH END)
AUX NP (WHEN REQUIRED)
NAMEPLATE
NAMEPLATE
2.12
.13
.13
.19 KEY 1.38 LONG
Ø 4.500 4.497
Ø 6.48
Ø .8750 .8745
.001 A
GND LUG
8 HOLES .38 DIA.
4.00
4.00
2.75
5.00
.44
5.88
FORSHEDA SLINGER (INSIDE) (PULLEY END)
GREASE RELIEF (EACH END)
10.93
6.93
4.00
45°
45°
5.96
7.48
3.50 +.00 -.06
.005
A
LEAD HOLE .75 N.P.T
2.75
2.75
5.41
3.33
6.65
DRAIN FITTING (EACH END)
4 HOLES .38-16 TAP ON 5.88 DIA. B.C.
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION - PKG11
REV: C
VERSION: 03
REVISED: 10:22:47 12/03/2018
TDR: 000001092572
MODEL NO. 05LYF127
REF: -
BY: ENALEM0
Material: -
B
BALDOR - RELIANCE®
HORZ 143-5TC TENV 05M IEEE 841
SH 1 of 1
05LYF127

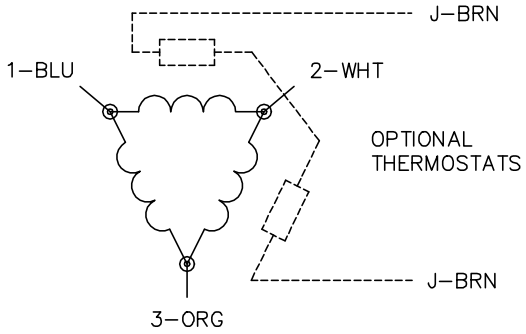
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1