ABB BALDOR RELIANCE

Customer information packet

CDP3590

2HP, 2500RPM, DC, 145TC, 3536P, TEFC, F1
Class - None
Division -

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/15/2026 11:13:32 AM

Specifications

Armature Voltage	180 V
Base Speed	2400 rpm
Enclosure	TEFC
Frame	145TC
Frame Material	Steel
Haz Area Class and Group	None
Output Power	2.000 HP
Agency Approvals	CE
	CSA
	UR
Ambient Temperature	40 °C
Armature Current	10.0 a
Armature Inertia	30.342 lb-ft2
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG, A
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	16.37 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End

Part Detail

Revision	AH
Type	DC
Mech. spec.	35P432
Base	
Status	PRD/A
Elec. spec.	35WGZ182
Layout	35LYP432
Eff. date	09-02-2026
CD Diagram	CD0194
Poles	00
Leads	2#14 A Y
Proprietary	False
Created date	01-01-0001

Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0891L					
CAT.NO.	CDP3590				
SPEC.	35P432Z182				
HP	2/KW1.5	**ENCL**	TEFC		
RPM	2500 1/MIN				
FRAME	145TC	**TYPE**	3536P		
ARM V	180	**ARM A**	10		
FLD V		**FLD A**			
INSUL	F	**AMB.**	40		
DUTY	CONT	**SUPPLY**	K		
BRG/DE	6205	**BRG/ODE**	6205		
BRUSHES	2/BP5000T15				
		BLANK	IP44		
SER.					
BLANK	IC411 KG29				
APRV-CE	Y	**APRV-CSA**	Y	**APRV-UL**	Y

Accessories

Part number	Description	Multiplier
TK3500	TACHO MOUTING KIT TK3500	A8

DC Motor Performance Data
Record # 387
Typical performance - not guaranteed values

Winding: 35WGZ182-R001	**Type:** 3536P	**Enclosure:** TEFC

Nameplate Data	
Rated Output (HP)	2
R.P.M.	2400
Armature Volts	180
Armature Amps	10
Field Volts	
Field Amps	
Rating - Duty	40C AMB-CONT
Power Supply Code	K

General Characteristics	
Armature Resistance @ 25ºC	0.494 Ω
Voltage Constant	68.3 v/krpm
Armature Inductance	6.797 mH
Armature Inertia	30.3419 LI²

Load Characteristics at 180 Armature Volts

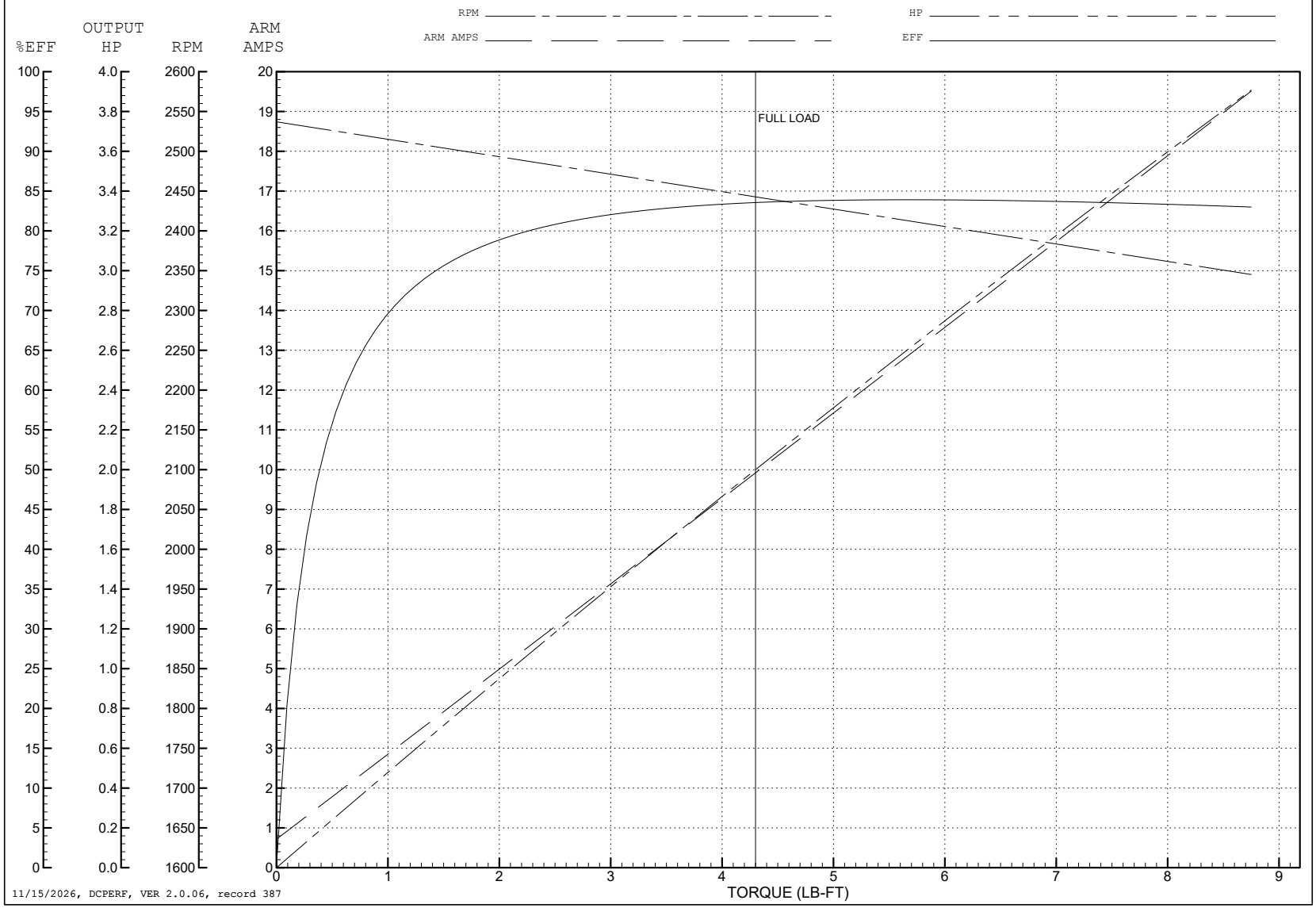
Load Point	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Armature Amps	0.7	5.5	8	10.2	12.5	14.7	19.6
R.P.M.	2514	2499	2483	2448	2416	2387	2335
Torque (LB-FT)	0	2.25	3.375	4.375	5.5	6.625	8.75

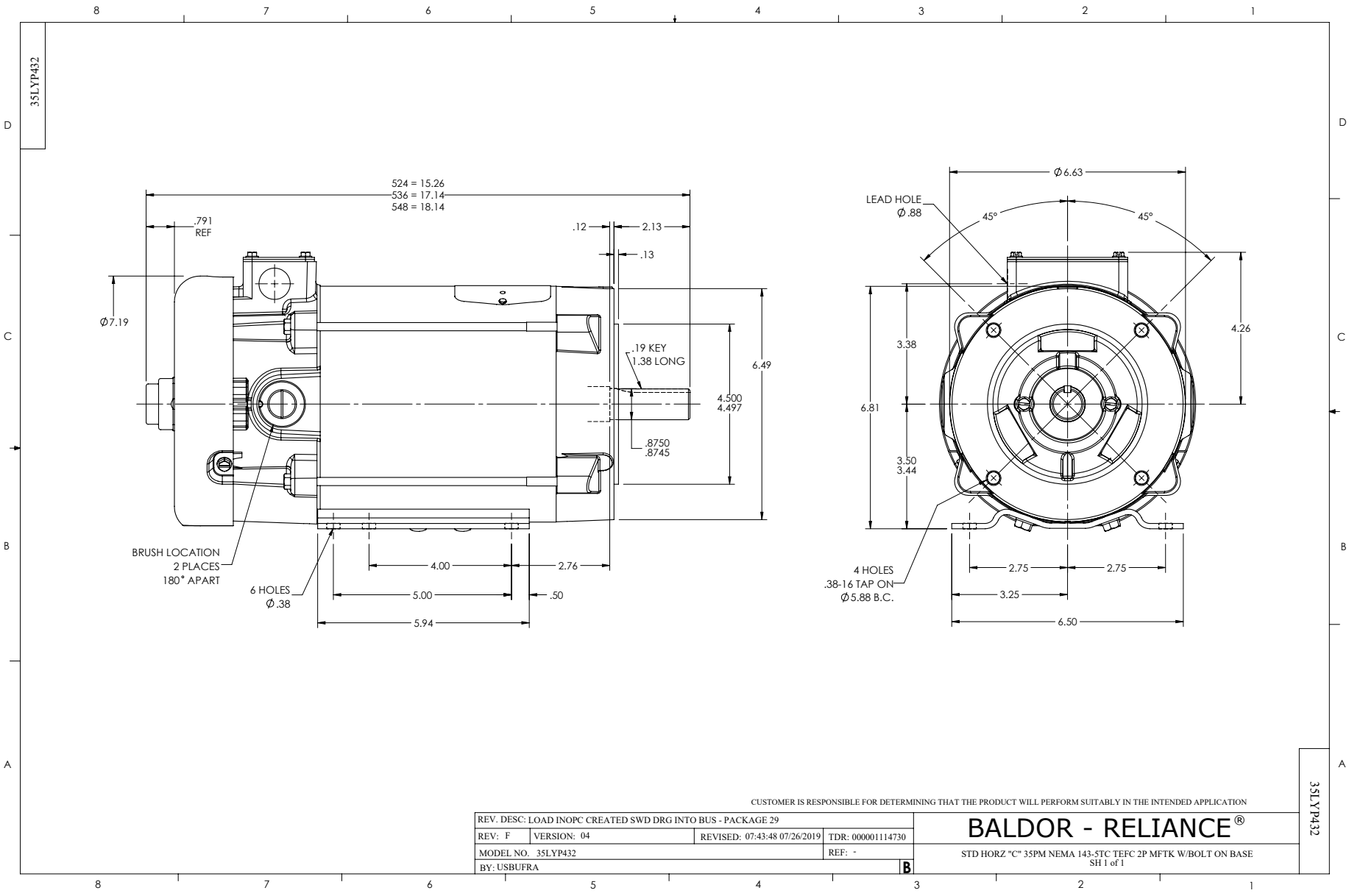
ABB Motors and Mechanical Inc.

WINDING # 35WGZ182

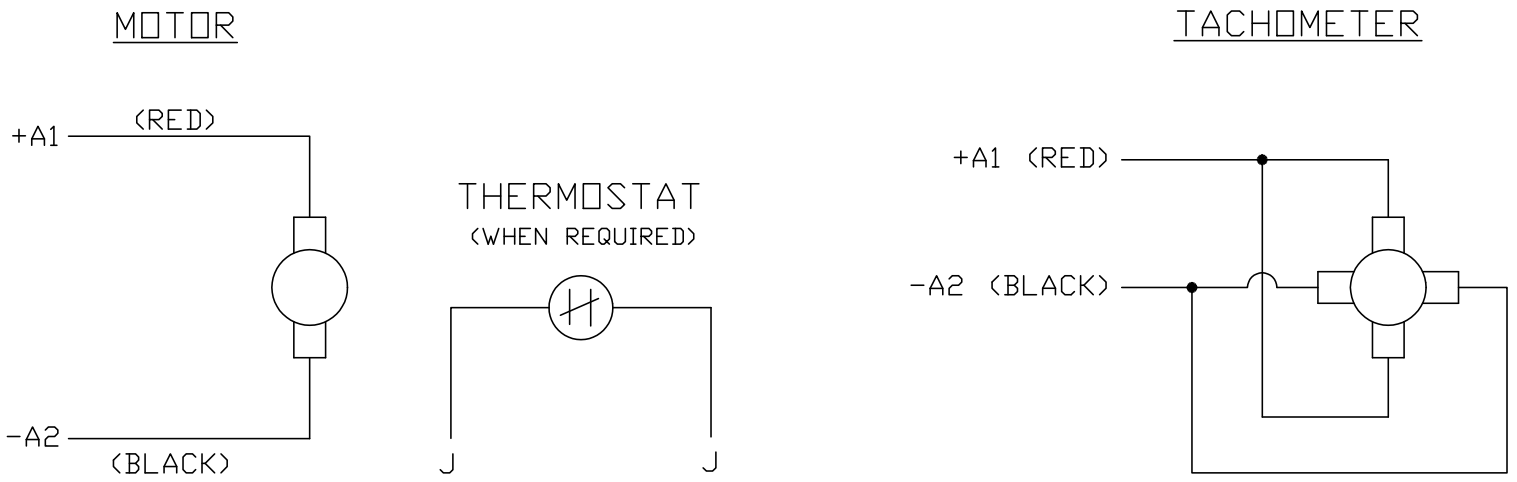
Typical performance - not guaranteed values.

2 HP DC 2400 RPM 180 V 3536P
ENCL: TEFC DUTY: CONT CL: F




35LYP432
524 = 15.26
536 = 17.14
548 = 18.14
.791
REF
.12
2.13
.13
Ø7.19
.19 KEY
1.38 LONG
6.49
4.500
4.497
.8750
.8745
BRUSH LOCATION
2 PLACES
180° APART
6 HOLES
Ø.38
4.00
2.76
5.00
.50
5.94
Ø6.63
LEAD HOLE
Ø.88
45°
45°
4.26
3.38
6.81
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
2.75
2.75
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 29
REV: F
VERSION: 04
REVISED: 07:43:48 07/26/2019
TDR: 000001114730
MODEL NO. 35LYP432
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ "C" 35PM NEMA 143-5TC TEFC 2P MFTK W/BOLT ON BASE
SH 1 of 1
35LYP432

CD0194



NOTES:

1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)

2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

CD0194

MATL: –				BALDOR ELECTRIC Co.
REV: E	ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &....			
CD0194	SCALE: –	BY: CK	REVISED: 07/28/95	CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS
	FILE: AAA00004503		TDR: 0078737	