



Customer information packet

CD5333

.33HP, 1750RPM, DC, 56C, 3513D, TEFC, F1

Class - None

Division -

Specifications

Armature Voltage	90 V
Base Speed	1750 rpm
Enclosure	TEFC
Field Voltage	100 V
	50 V
Frame	56C
Frame Material	Steel
Haz Area Class and Group	None
Output Power	0.330 HP
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Armature Current	3.7 a
Armature Inertia	5.073 lb-ft ²
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Field Winding Type	SHUNT
Heater Indicator	No Heater
Lifting Lugs	No Lifting Lugs
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 14 AWG
	4 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Overall Length	13.85 IN
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Service Factor	1.00

Part detail

Revision	Q
Type	DC
Mech. spec.	35P445
Base	
Status	PRD/A
Elec. spec.	35WGZ387
Layout	35LYP445
Eff. date	10-28-2024
CD Diagram	CD0860C01
Poles	00
Leads	
Proprietary	False
Created date	01-01-0001

Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger

Nameplate

NP0111L			
CAT.NO.	CD5333		
SPEC.	35P445Z387		
HP	.33	ENCL	TEFC
RPM	1750		
FRAME	56C	TYPE	3513D
ARM V	90	ARM A	3.7
FLD V	100/50	FLD A	.5/1
INSUL	F	AMB.	40
DUTY	CONT	SUPPLY	1.3
BRG/DE	6205	BRG/ODE	6203
BRUSHES	2/BP5000T07		
	BLANK		
SER.			
BLANK			
APRV-CSA	APRV-UL		

Accessories

Part number	Description	Multiplier
TK3500	TACHO MOUTING KIT TK3500	A8

DC Motor Performance Data

Record # 1415

Typical performance - not guaranteed values

Winding: 35WGZ387-R001		Type: 3513D	Enclosure: TEFC
Nameplate Data		General Characteristics	
Rated Output (HP)	0.333	Armature Resistance @ 25°C	2.309 Ω
R.P.M.	1750	Commutating Winding Resistance @ 25°C	0.576 Ω
Armature Volts	90		
Armature Amps	3.7	Shunt Winding Resistance @ 25°C	92.762 Ω
Field Volts	100 / 50		
Field Amps	0.5 / 1		
Rating - Duty	40C AMB-CONT		
Form Factor	1.3		

Load Characteristics at 90 Armature Volts, 100 Field Volts, 0.5 Field Amps

Load Point	1	2	3	4	5	6	7
Armature Amps	0.6	1.4	2.1	2.9	3.7	4.4	6
R.P.M.	1922	1860	1801	1757	1708	1652	1540
Torque (LB-FT)	0	0.258	0.516	0.773	1.01	1.268	1.719

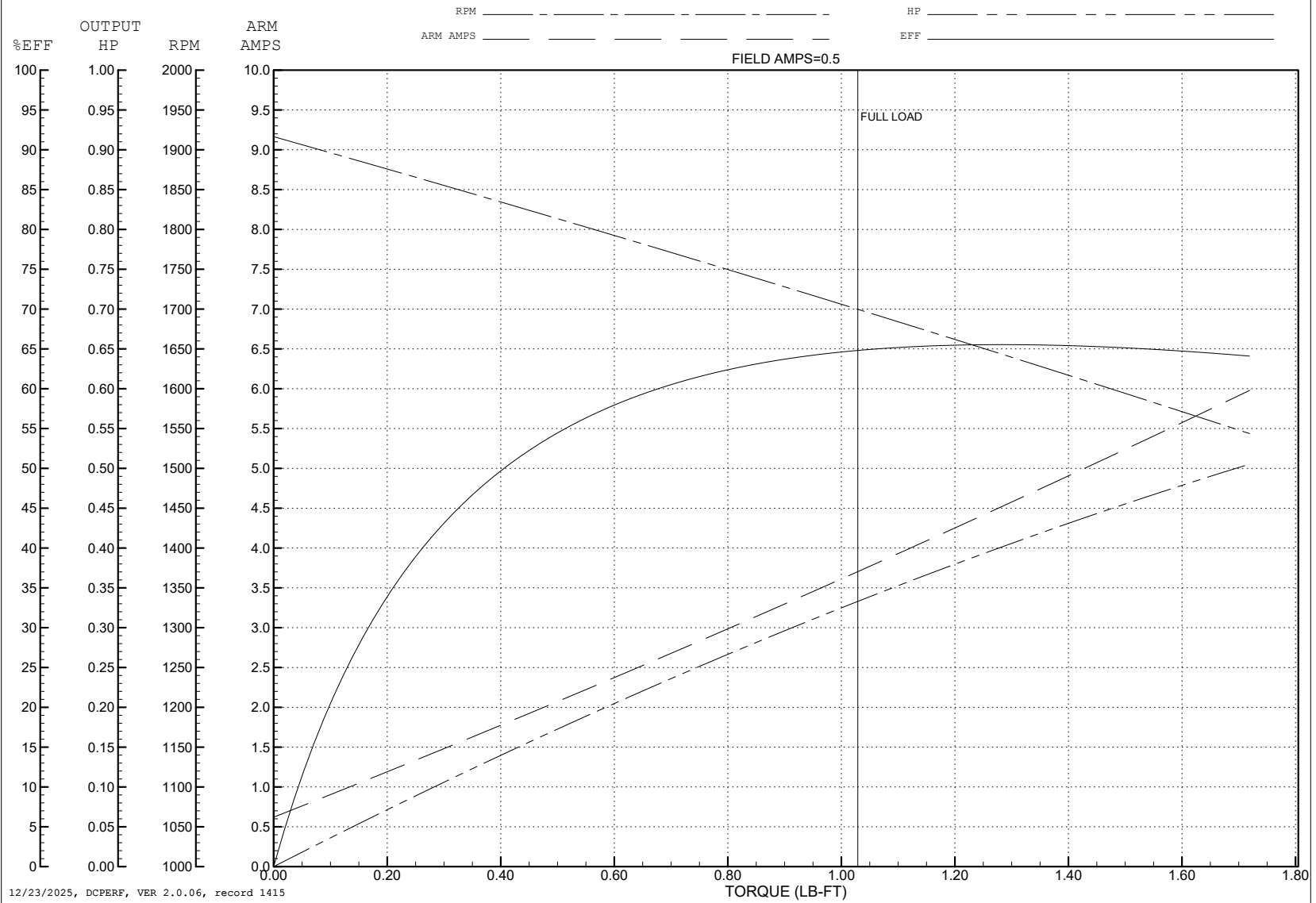
ABB Motors and Mechanical Inc.

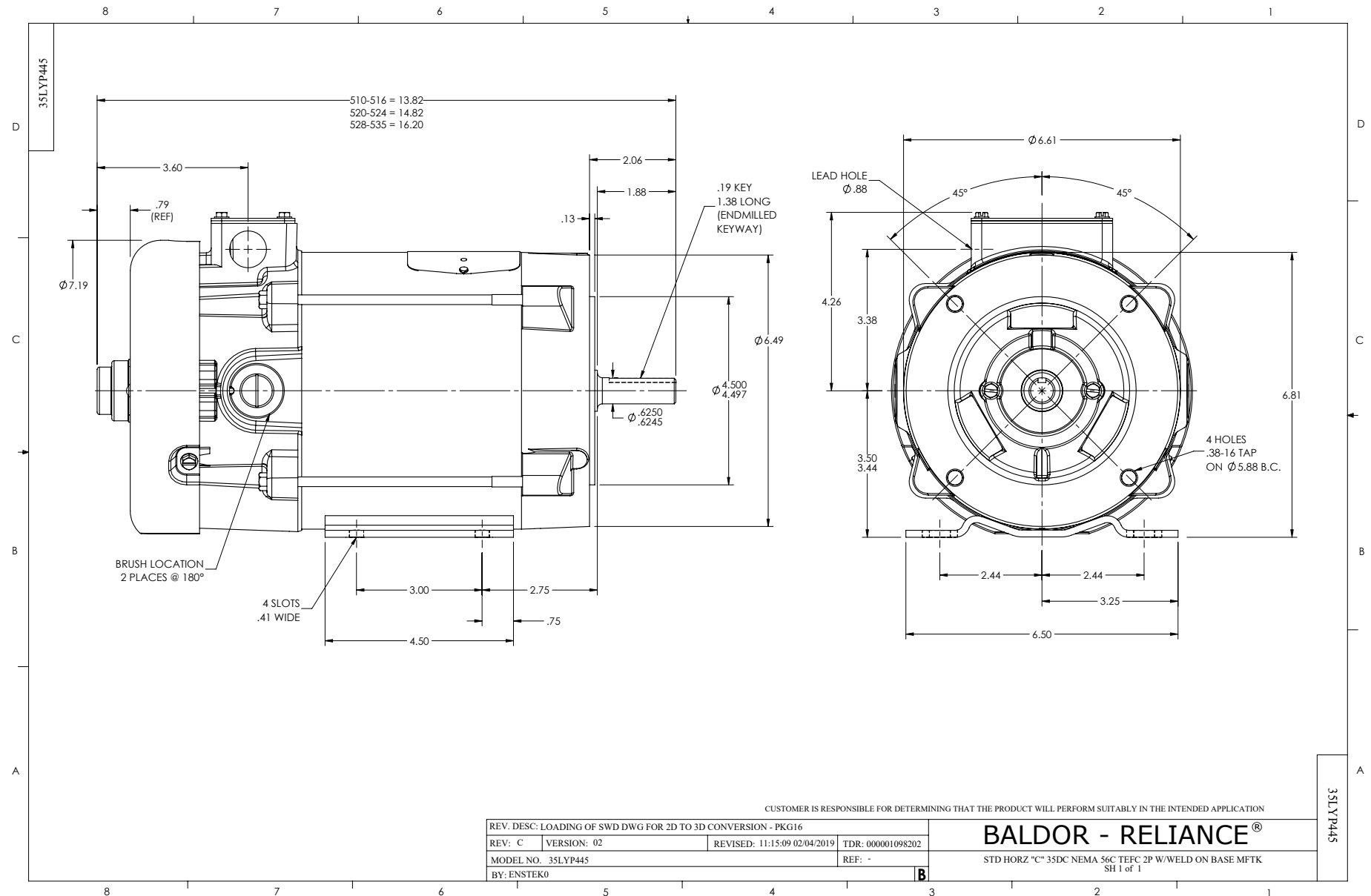
WINDING # 35WGZ387

Typical performance - not guaranteed values.

0.333 HP DC 1750 RPM 90 V ARM 100/50 V FLD 3513D

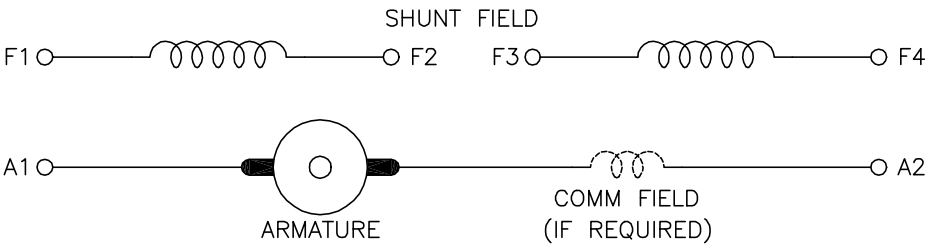
ENCL: TEFC DUTY: CONT CL: F





SHUNT WOUND

CD0860C01



CONNECTION	DIRECTION OF ROTATION			
	CWDE		CCWDE	
	POS TERM (+)	NEG TERM (-)	POS TERM (+)	NEG TERM (-)
HIGH VOLTAGE	A1	A2	A2	A1
	F1	F4	F1	F4
	CONNECT F2 & F3		CONNECT F2 & F3	
LOW VOLTAGE	A1	A2	A2	A1
	F1 & F3	F2 & F4	F1 & F3	F2 & F4

- NOTES:
- 1. LIMIT STARTING INRUSH CURRENT TO NOT MORE THAN 3 TIMES RATED AMPERES BY ENERGIZING THE FULL SHUNT FIELD BEFORE BRINGING THE ARMATURE VOLTAGE UP SLOWLY OR IN STEPS.
 - 2. OPTIONAL FIELD REOSTAT MAY BE CONNECTED IN SERIES WITH THE SHUNT FIELD.
 - 3. OPTIONAL THERMOSTAT LEADS ARE MARKED J,J.

REV. DESC: NEW, REPLACE CD0860			
REV. LTR: -	BY: JLP	REVISED: 15:35:22 11/03/2004	TDR: 347796
100098000		FILE: AAA00121477	REF: CD0860C01
		MTL: -	

BALDOR ELECTRIC Co.

DC CONNECTION DIAGRAM, SHUNT FIELD, 6 LEAD, DUAL VOLTAGE

CD0860C01