BALDOR
A MEMBER OF THE ABB GROUP

BALDOR • RELIANCE

Product Information Packet

CD5318

1HP,1750RPM,DC,56C,3535D,TEFC,F1

Part Detail

Revision:	M	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	DC	**Prod. Type:**	3535D	**Elec. Spec:**	35WGZ391	**CD Diagram:**	CD0860C01
Enclosure:	TEFC	**Mfg Plant:**		**Mech. Spec:**	35P442	**Layout:**	35LYP442
Frame:	56C	**Mounting:**	F1	**Poles:**	00	**Created Date:**	
Base:	RG	**Rotation:**	R	**Insulation:**	F	**Eff. Date:**	09-01-2016
Field Type:	Shunt	**Literature:**		**Elec. Diagram:**		**Replaced By:**	

Specs

Enclosure:	TEFC		
Frame:	56C		
Frame Material:	Steel		
XP Class and Group:	None		
Agency Approvals:	CSA		
	UR		
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		
Insulation Class:	F		
Lifting Lugs:	No Lifting Lugs		
Motor Lead Quantity/Wire Size:	2 @ 14 AWG		

	4 @ 18 AWG		
Motor Lead Exit:	Lead Hole		
Motor Lead Termination:	Flying Leads		
Mounting Arrangement:	F1		
Product Family:	General Purpose		
Pulley End Bearing Type:	Sealed Bearing		
Shaft Extension Location:	Pulley End		
Shaft Ground Indicator:	No Shaft Grounding		
Shaft Rotation:	Reversible		
Shaft Slinger Indicator:	No Slinger		
Motor Standards:	NEMA		

Nameplate NP0111L

CAT.NO.	CD5318				
SPEC.	35P442Z391				
HP	1	**ENCL**	TEFC		
RPM	1750				
FRAME	56C	**TYPE**	3535D		
ARM V	180	**ARM A**	5		
FLD V	200/100	**FLD A**	.3/.6		
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**			

DC Motor Performance Data

Record # 279 - Typical performance - not guaranteed values

Winding: 35WGZ391-R001	**Type:** 3535D	**Enclosure:** TEFC

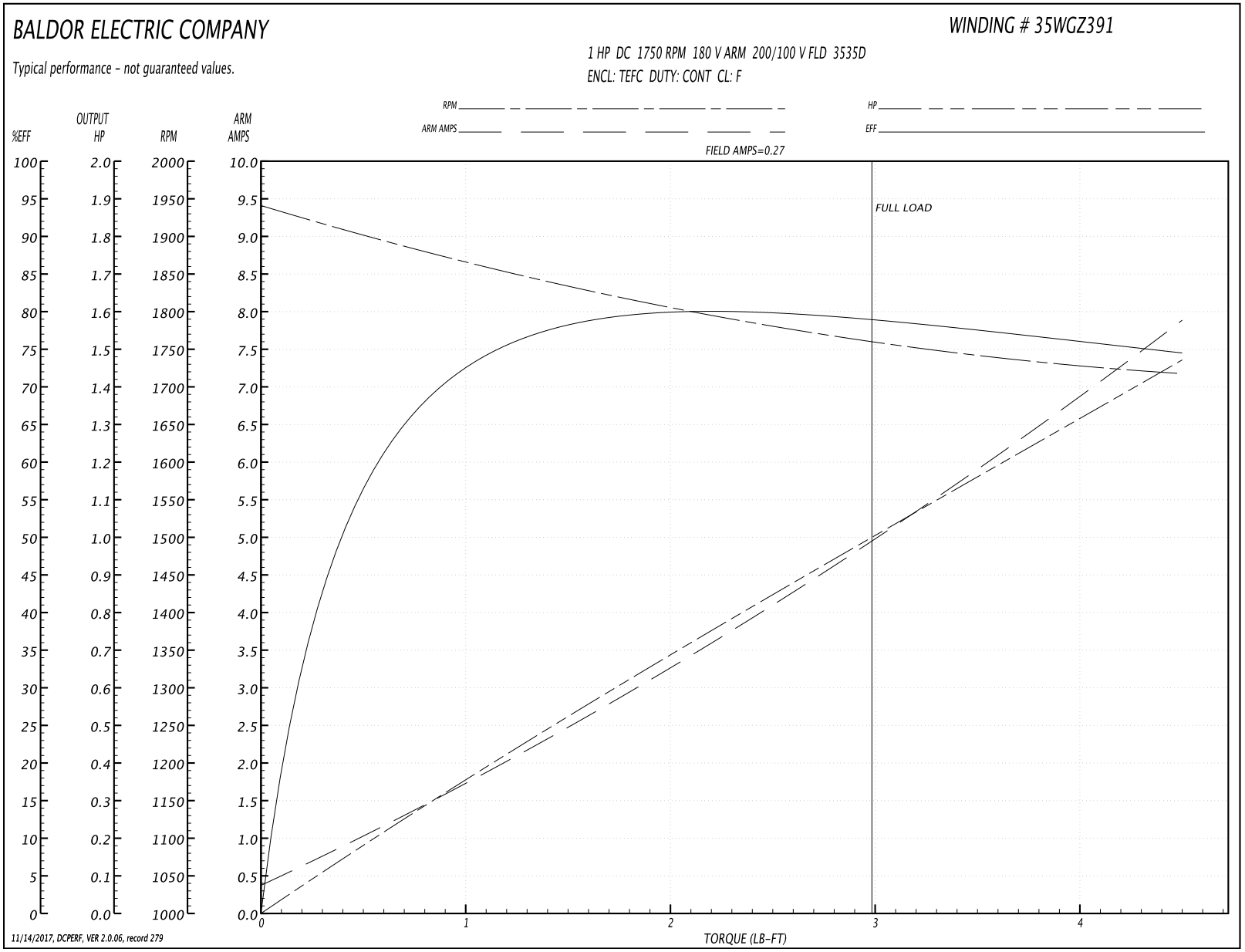
Nameplate Data	
Rated Output (HP)	1
R.P.M.	1750
Armature Volts	180
Armature Amps	5
Field Volts	200 / 100
Field Amps	0.3 / 0.6
Rating - Duty	40C AMB-CONT
Form Factor	1.3

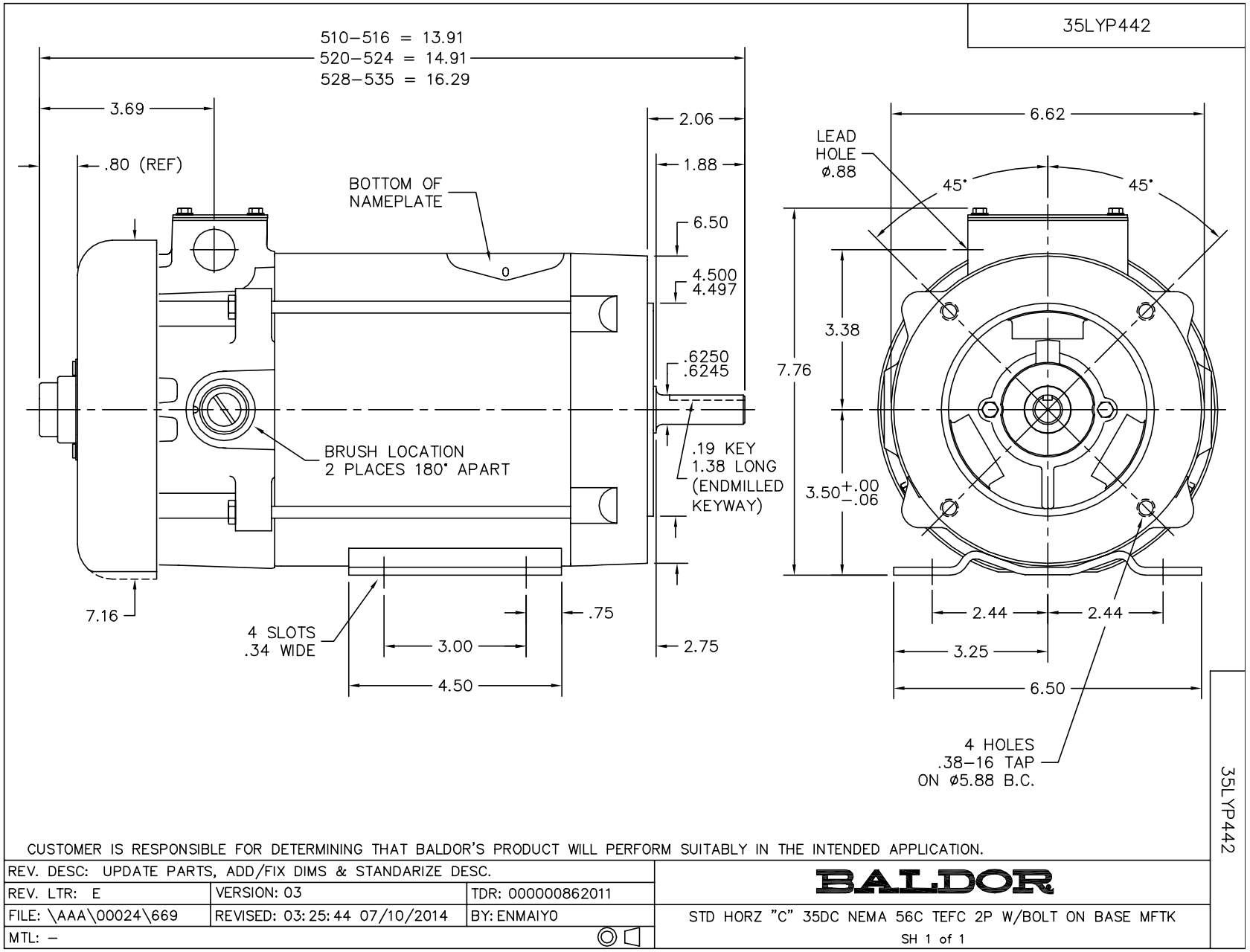
General Characteristics	
Armature Resistance @ 25ºC	1.898 Ω
Commutating Winding Resistance @ 25ºC	1.363 Ω
Shunt Winding Resistance @ 25ºC	686.4 Ω
Temp. Rise @ Rated Load	102°C

Load Characteristics at 180 Armature Volts, 200 Field Volts, 0.27 Field Amps

Load Point	1	2	3	4	5	6	7
Armature Amps	0.35	1.4	2.5	3.7	4.9	6.4	7.9
R.P.M.	1945	1878	1831	1795	1760	1739	1714
Torque (LB-FT)	0	0.75	1.5	2.25	3	3.75	4.5

Performance Graph at 180.0 Arm V, 1.0HP Typical performance - Not guaranteed values





CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATE PARTS, ADD/FIX DIMS & STANDARIZE DESC.		
REV. LTR: E	VERSION: 03	TDR: 000000862011
FILE: \AAA\00024\669	REVISED: 03:25:44 07/10/2014	BY: ENMAIYO
MTL: –		

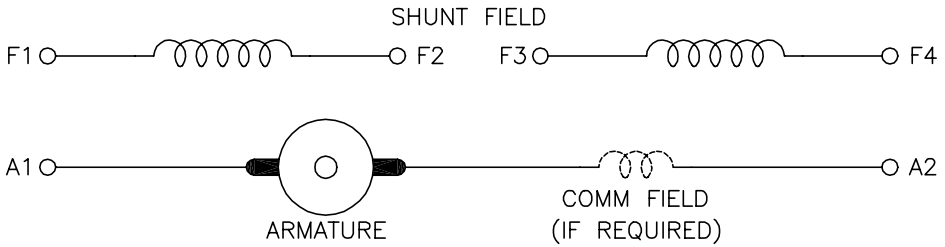
BALDOR

STD HORZ "C" 35DC NEMA 56C TEFC 2P W/BOLT ON BASE MFTK

SH 1 of 1

CD0860C01

SHUNT WOUND



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

CD0860C01

REV. DESC: NEW, REPLACE CD0860			BALDOR ELECTRIC Co.
REV. LTR: –	BY: JLP	REVISED: 15:35:22 11/03/2004	TDR: 347796
CD0860C01		FILE: AAA00121477	REF: CD0860C01
		MTL: –	DC CONNECTION DIAGRAM, SHUNT FIELD, 6 LEAD, DUAL VOLTAGE