

ABB BALDOR RELIANCE III

Customer information packet

CXL141522T

1.5HP, 3450RPM, 1PH, 60HZ, 143TC, 3530L, XPFC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ 208.0 V @ 60 HZ
Agency Approvals	CSA UL
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	16.000 A @ 115.0 V 8.000 A @ 230.0 V 8.500 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WG0093
Layout	35LYS818
Eff. date	02-22-2024
CD Diagram	CD0001
Poles	02
Leads	4#16 A PH,2#18 B PH
Proprietary	False
Created date	04-23-2021

High Voltage Full Load Amps	8.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.10 IN
Power Factor	82
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSL									
NO.		CC							
SER.									
SPEC.	35-0000-1107								
CAT.NO.	CXL141522T								
HP	1.5		T. CODE	T3C					
VOLTS	115/208-230								
AMPS	16/8.5-8								
RPM	3450								
HZ	60		PH	1		CL	F		
SER.F.	1.15		DES	L		CODE	J		
RATING	40C AMB-CONT								
FRAME	143TC		NEMA-NOM-EFF						70
		PF	82						
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 88062

Typical performance - not guaranteed values

Winding: 35WG0199-R001			Type: 3528L		Enclosure: XPFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1.5	Full Load Torque		2.26 LB-FT	
Volts		115/208-230	Start Configuration		Unknown	
Full Load Amps		16/8.5-8	Breakdown Torque		5.73 LB-FT	
R.P.M.		3450	Pull-up Torque		3.83 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		5.02 LB-FT	
NEMA Design Code		L	KVA Code		J	
Service Factor (S.F.)		1.15	Starting Current		71.1 A	
NEMA Nom. Eff.		70	Power Factor		82	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		18/9.9-9	Line-line Res. @ 25°C		0.269 Ω A Ph 1.13 Ω B Ph	
			Temp. Rise @ S.F. Load		71°C	
			Locked-rotor Power Factor		87.2	
			Rotor inertia		0.083 lb-ft²	

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	69	79	84	87	88	86
Efficiency	60.3	73	77.4	78.8	78.6	77.2	78.7
Speed	3570	3546	3519	3490	3456	3417	3470
Line amperes	7.95	9.69	12	14.7	17.9	21.5	16.6

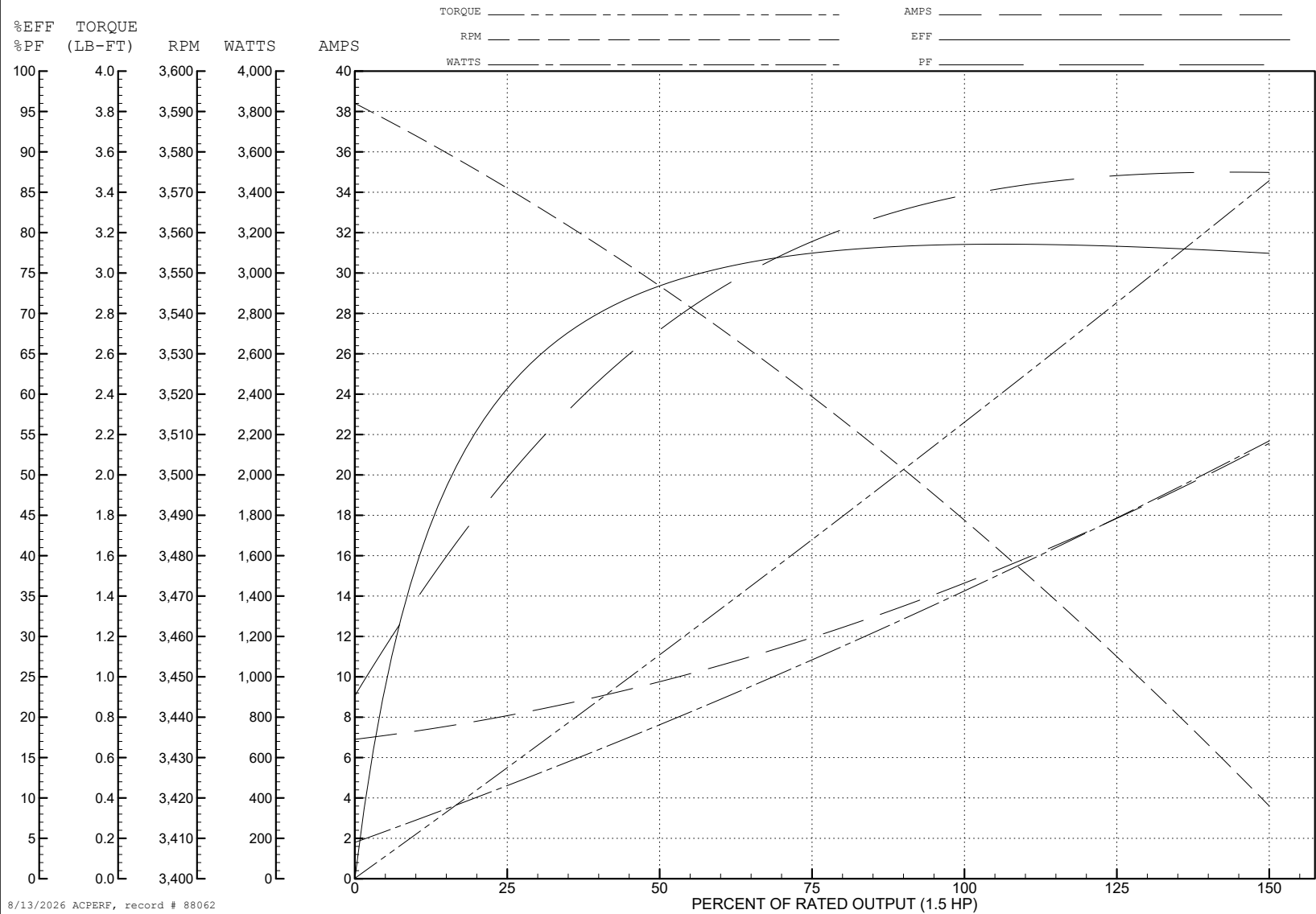
ABB Motors and Mechanical Inc.

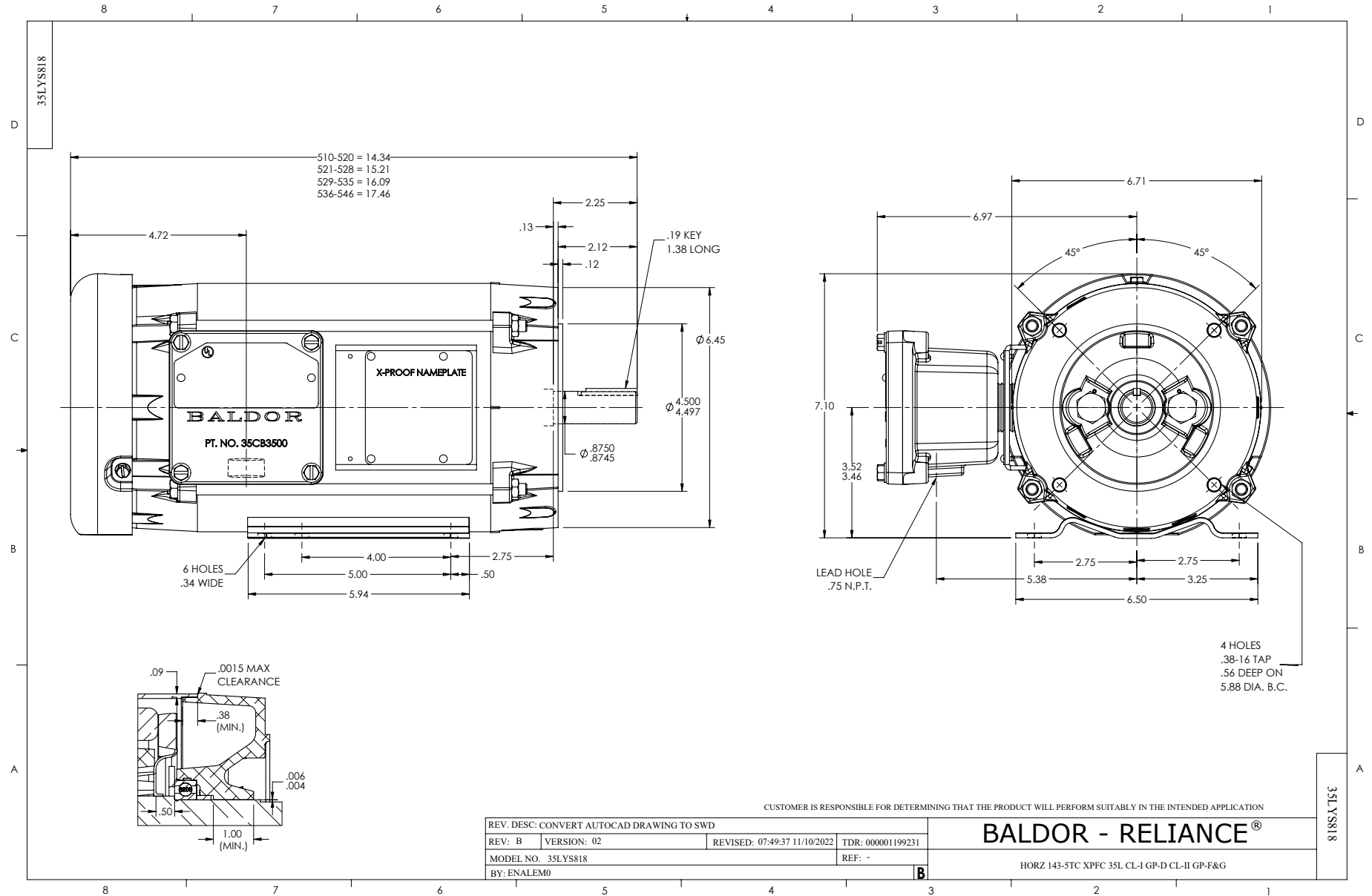
WINDING # 35WG0199

Typical performance - not guaranteed values.

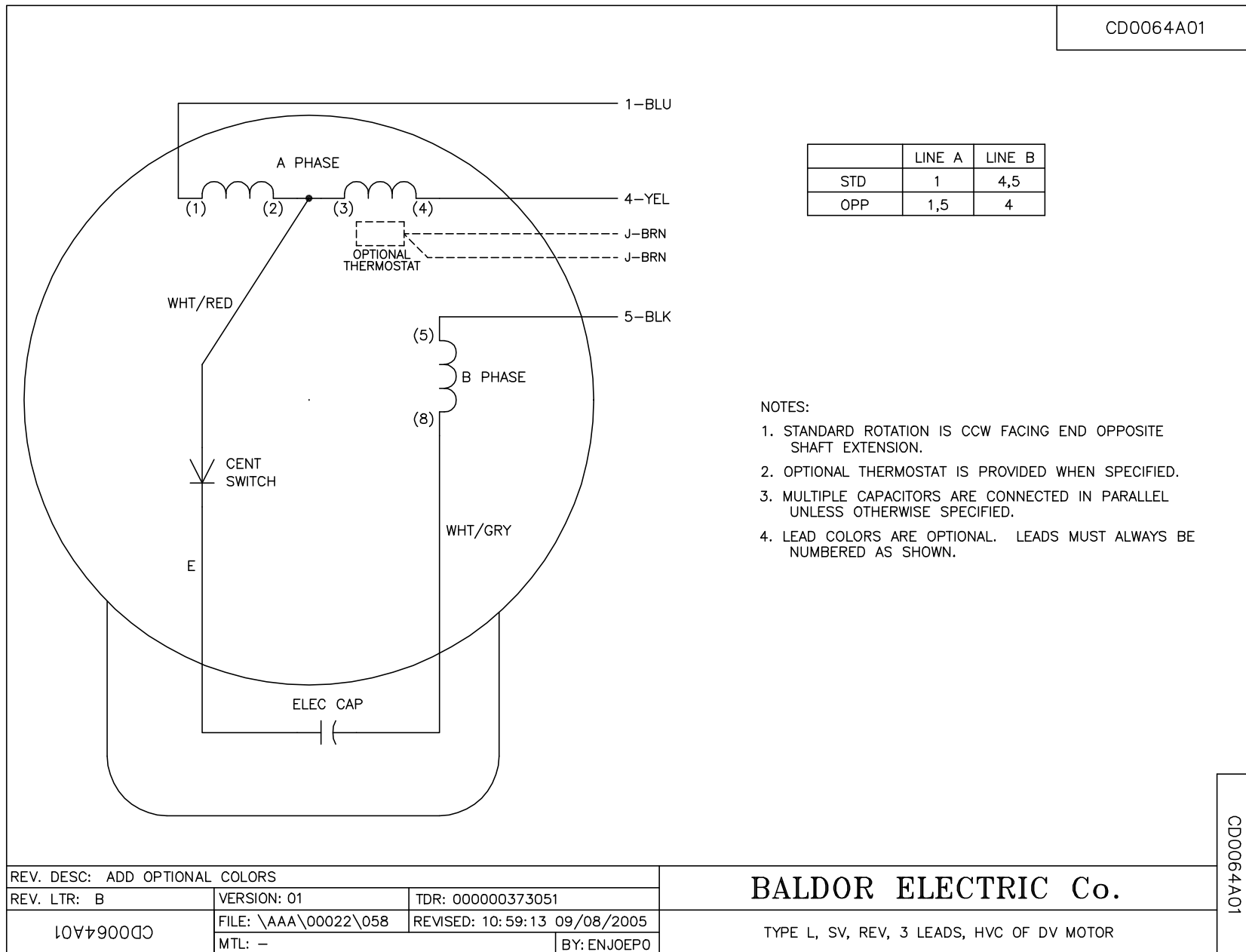
1.5 HP 1 PH 60 HZ 3450 RPM 115 V 3528L

TORQUES (LB-FT): PO=5.73 PU=3.83 LR=5.02 LRA=71.1





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