

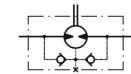
MT500CP PRODUCT FEATURE SUMMARY

DATE: 17.06.2025 Username: Evelin Badic

MODEL TYPE: MT500CP

CNSORDERNO (Order number)	MT500CP	
MF (Mounting Flange)	omit: Square mount, four holes	
PT (Port type)	omit: Side ports	
DC (Displacement code)	500: 523,6 cm³/rev [31.95 in³/rev]	
SE (Shaft Extensions)	C: ø40 straight, Parallel key A12x8x70 DIN6885	
SSV (Shaft Seal Version)	omit: Low pressure seal	
P (Ports)	omit: BSPP (ISO 228)	
SFMS (Special Features Measure speed)	omit: no special features	
SFRM (Special Features Reinforced motor)	omit: no special features	
SFGWS (Special Features of gear wheel set)	omit: no special features	
SFDR (Special Features - Direction of rotation)	omit: Standard	
OP (Option (Paint))	P: Paint	
INFO (INFO)	PDF catalog	
L (mm)	237.1	
L1 (mm)	61.2	
L2 (mm)	187.0	

DATA SHEET



Туре		
Displacement, cm3/rev [in3/	rev]	523,6[31.95]
Max. Speed,	cont.	238
[RPM]	Int.*	289
Max. Torque,	cont.	122[10800]
daNm [lb-in]	Int.*	137[12125]
Max. Output, kW [HP]	cont.	26,5[36]
	Int.*	30[40]
Max. Pressure Drop,	cont.	160[2320]
bar [PSI]	Int.*	180[2610]
Max. Oil Flow,	cont.	125[33]
lpm [GPM]	Int.*	150[39.6]

	Туре	
	cont.	210[3050]
Max. Inlet Pressure, bar [PSI]	Int.*	250[3600]
	peak**	300[4350]
Max. Return Pressure with Drain Line bar [PSI]	cont.	140[2000]
	Int.*	175[2500]
	peak**	210[3000]
Pressure with Unloaded Shaft, bar [PSI]		10 [150]
Min Starting Torque, daNm [lb-in]	at max. press. drop cont.	95[8410]
	at max. press. drop Int.*	106[9380]
Min. Speed***, [RPM]		5
Weight, kg [lb]		24 [52.9]

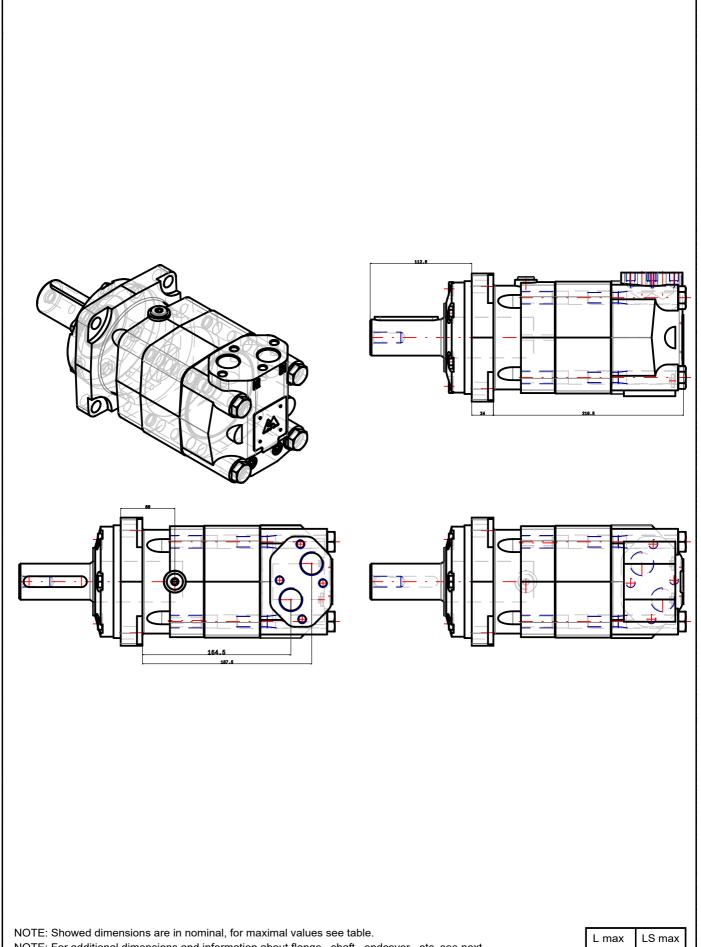
- * Intermittent operation: the permissible values may occur for max. 10% of every minute.
- ** Peak load: the permissible values may occur for max. 1% of every minute.
- *** For speeds lower than given, consult factory or your regional manager.
- 1. Intermittent speed and intermittent pressure drop must not occur simutaneously.
- 2. Recommended filtration is per ISO cleanliness code 20/16. A nominal filtration of 25 micron or better.
- 3. Recommend using a premium quality, anti-wear type mineral based hydraulic oil HLP(DIN51524) or HM (ISO 6743/4). If using synthetic fluids consult the factory for alternative seal materials.
- 4. Recommended minimum oil viscosity 13 mm²/s [70 SUS] at 50°C [122°F].
- 5. Recommended maximum system operating temperature is 82°C [180°F].
- 6. To assure optimum motor life fill with fluid prior to loading and run at moderate load and speed for 10-15 minutes.



MT500CP

3d generated view

To see model in 3D you should use Acrobat Reader with enable 3D view



NOTE: For additional dimensions and information about flange , shaft , endcover , etc. see next page.

L max	LS max
237.1	187.0

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Check:

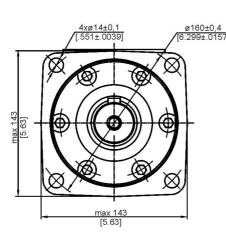
Design: M+S

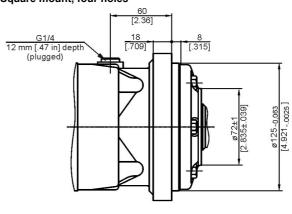
MT500CP				
Scale	Sheet	Rev.	Weight	\Box
Date 17.06.2025			24 [52.9]	UUU

Standard Rotation Viewed from Shaft End

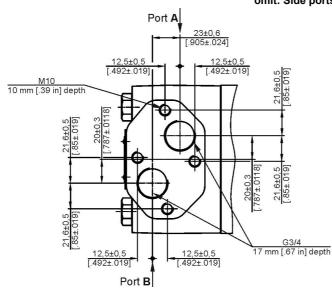
Port A Pressurized - CW Port B Pressurized - CCW

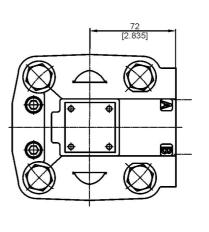
omit: Square mount, four holes



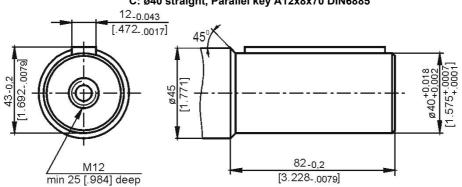


omit: Side ports





C: ø40 straight, Parallel key A12x8x70 DIN6885



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Design: M+S Check:



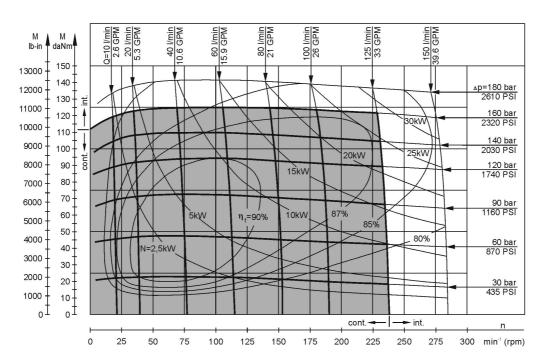
MΤ	50	0CP
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Weight Scale Sheet Rev. Date 17.06.2025 24 [52.9]



MT500CP

FUNCTION DIAGRAMS

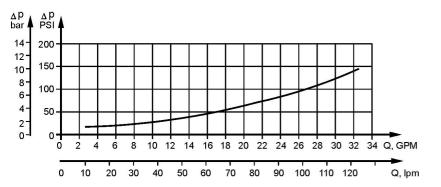


The function diagrams data is for average performance of randomly selected motors at back pressure 5÷10 bar [72.5÷145 PSI] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122°F].



MT500CP DATA SHEET

Pressure Losses

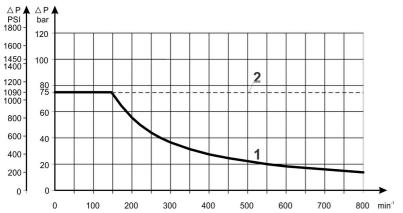


Oil flow in drain line

Pressure drop bar [PSI]	Viscosity mm²/s [SUS]	Oil flow in drain line lpm [GPM]
140 [2020]	20 [98]	2,5[.660]
140 [2030]	35 [164]	1,5 [.396]
210 [3045]	20 [98]	5 [1.321]
	35 [164]	3 [.793]

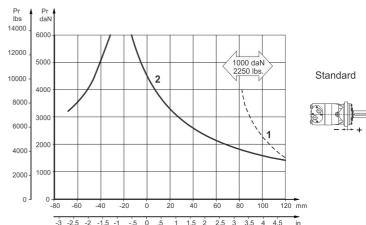
MAX: PERMISSIBLE SHAFT SEAL PRESSURE

Max. return pressure without drain line or max. pressure in the drain line



Curve "1" shows continuous operations. Curve"2" shows intermittent operations.

PERMISABLE SHAFT LOAD



Curve "1" shows critical radial shaft load. The output shaft runs in tapered bearings that permithigh axial and radial forces. The permissible radial loadon the shaft is shown (curve 2) for an axial load of 0 Nas function of the distance from the mounting flange to the point of load application. The curve 2 apply to a B10 bearing life of 2000 hours at 100 RPM.

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