

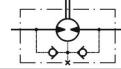
# MT315CP PRODUCT FEATURE SUMMARY

DATE: 17.06.2025 Username: Evelin Badic

**MODEL TYPE: MT315CP** 

CNSORDERNO (Order number)	MT315CP	
MF (Mounting Flange)	omit: Square mount, four holes	
PT (Port type)	omit: Side ports	
DC (Displacement code)	315: 326,3 cm³/rev [19.90 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)	212.6	
<b>L1</b> (mm)	36.7	
<b>L2</b> (mm)	162.5	

### **DATA SHEET**



•	Гуре	
Displacement, cm3/rev [in3/	rev]	326,3[19.90]
Max. Speed, [RPM]	cont.	382
	Int.*	461
Max. Torque, daNm [lb-in]	cont.	95[8410]
	Int.*	114[10090]
Max. Output, kW [HP]	cont.	33,5[45]
	Int.*	40[54]
Max. Pressure Drop, bar [PSI]	cont.	200[2900]
	Int.*	240[3480]
Max. Oil Flow, Ipm [GPM]	cont.	125[33]
	Int.*	150[39.6]

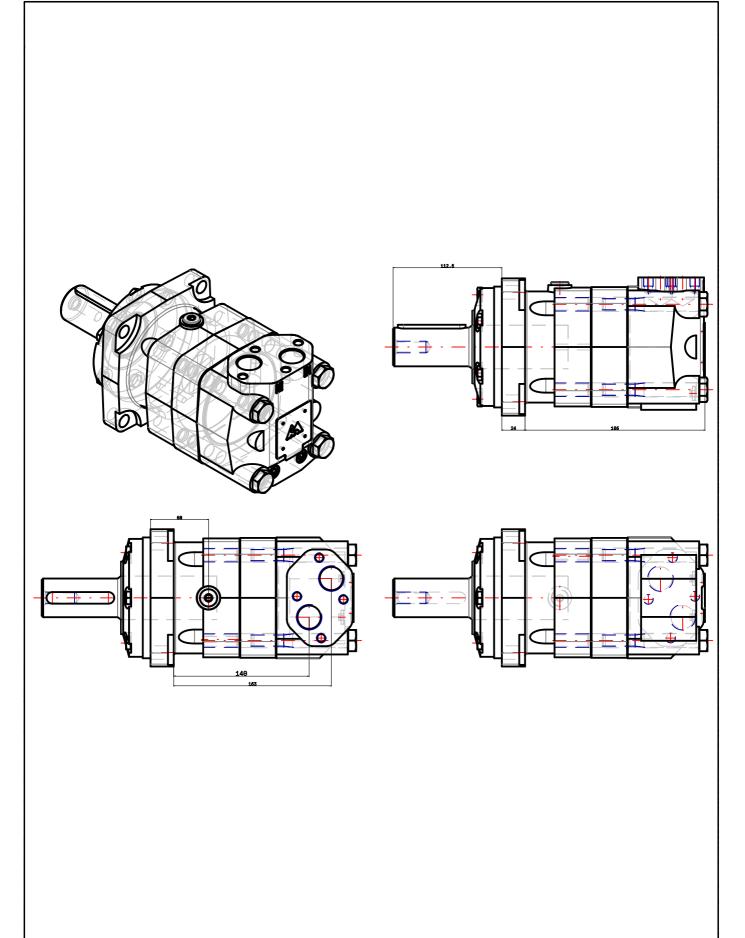
	Туре	
Max. Inlet Pressure, bar [PSI]	cont.	210[3050]
	Int.*	250[3600]
	peak**	300[4350]
Max. Return Pressure with Drain Line bar [PSI]	cont.	140[2000]
	Int.*	175[2500]
	peak**	210[3000]
Pressure with Unloaded Shaft, bar [PSI]		10 [150]
Min Starting Torque, daNm [lb-in]	at max. press. drop cont.	74[6550]
	at max. press. drop Int.*	89[7880]
Min. Speed***, [RPM]		7
Weight, kg [lb]		22 [48.5]

- \* 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 mm<sup>2</sup>/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.



# MT315CP 3d generated view

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



NOTE: Showed dimensions are in nominal, for maximal values see table.

 $\label{eq:NOTE:policy} \textbf{NOTE:} \ \textbf{For additional dimensions and information about flange} \ \textbf{, shaft} \ \textbf{, endcover} \ \textbf{, etc. see next}$ 

page.

L max	LS max
212.6	162.5

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Check:

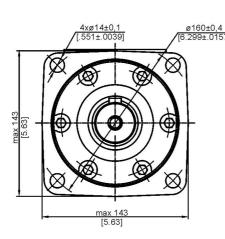
Design: M+S

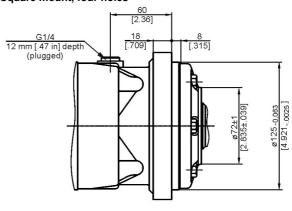
MT315CP

Sheet Rev. Weight Scale Date 17.06.2025 22 [48.5]

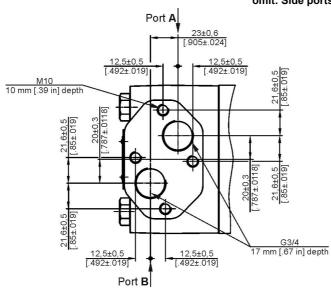


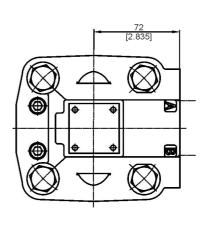
#### omit: Square mount, four holes



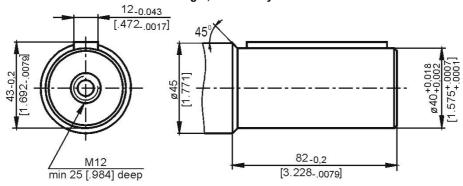


#### omit: Side ports





#### C: ø40 straight, Parallel key A12x8x70 DIN6885



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Design: M+S Check:



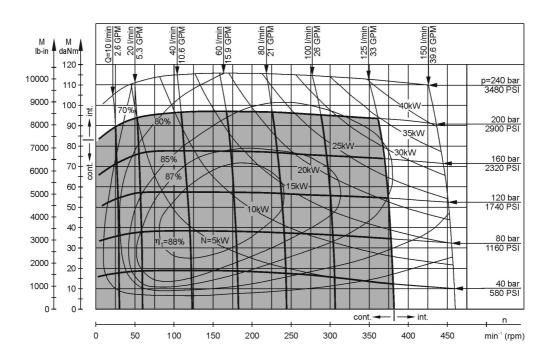
Scale Sheet Rev. Weight

Date 17.06.2025 22 [48.5]



### **MT315CP**

#### **FUNCTION DIAGRAMS**

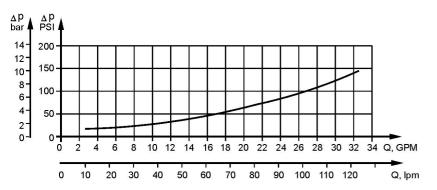


The function diagrams data is for average performance of randomly selected motors at back pressure 5÷10 bar [72.5÷145 PSI] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122°F].



## MT315CP DATA SHEET

#### **Pressure Losses**

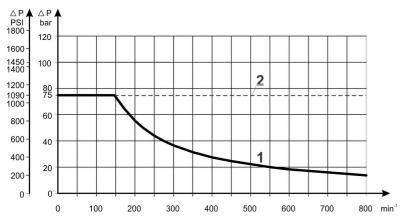


#### Oil flow in drain line

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

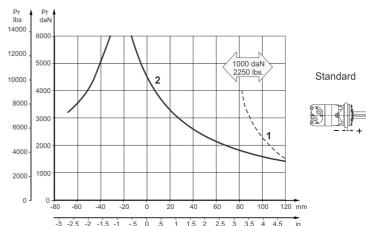
#### MAX: PERMISSIBLE SHAFT SEAL PRESSURE

## 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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