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产品特点/ Product features

BMR系列摆线液压马达是一种轴配流液压马达，该系列马达使用镶柱式转定子付，具有在高压力下工作并能自动补偿的结构，从而使整机具有高效保持性好，工作寿命长。

其特点：

1、采用先进的转定子参数设计，启动压力低，效率较高，并且保持性好，运转平稳。
2、采用高压轴密封，可承载较高背压。允许串、并联使用。
3、联动轴结构优化设计，马达使用寿命长。
4、配流系统参数优化设计，可满足低噪声要求。
5、马达结构紧凑，安装方便。

BMR series motor adapt the advanced Geroler gear set design with shaft distribution flow, which can automatically compensate in operating with high pressure, provide reliable and smooth operation, high efficiency and long life.

Characteristic features:

1、Advanced manufacturing devices for the Gerolor gear set, which use low pressure of start-up, provide smooth, reliable operation and high efficiency.
2、Shaft seal can bear high pressure of back and the motor can be used in parallel or in series.
3、Special design in the driver-linker and prolong operating life
4、Special design for distribution system can meet the requirement of low noise of unit.
5、Compact volume and easy installation

技术参数/ Technical data

以下表格技术参数针对BMR系列马达轴径为Φ25、Φ25.4，花键轴Φ25.4和锥轴Φ28.56

Technical parameters for BMR series motor shaft diameter Φ25 and Φ25.4, Spline shaft Φ25.4 and Cone shaft Φ28.56

型号 Type		BMR BMRS 36	BMR BMRS 50	BMR BMRS 80	BMR BMRS 100	BMR BMRS 125	BMR BMRS 160	BMR BMRS 200	BMR BMRS 250	BMR BMRS 315	BMR BMRS 375
排量 (cm³/rev.) Geometric displacement		36	51.7	81.5	102	127.2	157.2	194.5	253.5	317.5	381.4
最高转速 Max. speed (rpm)	额定 rated	1055	750	650	520	420	330	265	200	165	135
	连续 cont.	1250	960	750	600	475	378	310	240	190	155
	断续 int.	1520	1150	940	750	600	475	385	300	240	190
最大扭矩 Max. torque (N.m)	额定 rated	69	100	160	200	250	320	330	352	360	420
	连续 cont.	72	100	195	240	300	360	360	390	390	365
	断续 int.	83	126	220	280	340	430	440	490	535	495
	峰值 peak	105	165	270	320	370	460	560	640	650	680
最大输出功率 Max. output (kw)	连续 cont.	8.5	9.5	12.5	13.0	12.5	12.5	10.0	7.0	6.0	5.0
	断续 int.	9.8	11.2	15.0	15.0	14.5	14.0	13.0	9.5	9.0	8.0
最高工作压差 Max. pressure drop (MPa)	额定 rated	14.0	14.0	14.0	14.0	14.0	14.0	12.0	11.0	8.5	8.5
	连续 cont.	14.0	14	17.5	17.5	17.5	16.5	13	11	9	7
	断续 int.	16.5	17.5	20	20	20	20	17.5	15	13	10
	峰值 peak	22.5	22.5	22.5	22.5	22.5	22.5	22.5	20	17.5	15
最大流量 Max. flow (L/min)	额定 rated	40	40	55	55	55	55	55	55	55	55
	连续 cont.	45	50	60	60	60	60	60	60	60	60
	断续 int.	55	60	75	75	75	75	75	75	75	75
重量 Weight (kg)		6.5	6.7	6.9	7	7.3	7.6	8.0	8.5	9.0	9.5

* 额定转速、扭矩是指在额定流量、压力下的输出值。
* 连续值是指该排量马达可以连续工作的最大值。
* 断续值是指该排量马达在1分钟内工作6秒的最大值。
* 峰值是指该排量马达在1分钟内工作0.6秒的最大值。

* Rated speed and rated torque: output value of speed and torque under rated flow and rated pressure;
* Continuous pressure: Max.value of operating motor continuously;
* Intermittent prssure: Max.value of operating motor in 6 seconds per minute;
* Peak pressure: Max.value of operating motor in 0.6 second per minute.

技术参数/ Technical data

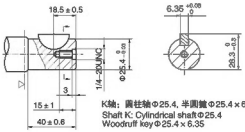
以下表格技术参数针对BMR系列马达轴径为Φ31.75、Φ32
Technical parameters for BMR series motor shaft diameter Φ31.75 and Φ32

型号 Type		BMR BMRS 36	BMR BMRS 50	BMR BMRS 80	BMR BMRS 100	BMR BMRS 125	BMR BMRS 160	BMR BMRS 200	BMR BMRS 250	BMR BMRS 315	BMR BMRS 375
排量 (cm^3/rev.) Geometric displacement		36	51.7	81.5	102	127.2	157.2	194.5	253.5	317.5	381.4
最高转速 Max. speed (rpm)	额定 rated	1055	750	650	520	420	330	265	200	165	135
	连续 cont.	1250	960	750	600	475	378	310	240	190	155
	断续 int.	1520	1150	940	750	600	475	385	300	240	190
最大扭矩 Max. torque (N.m)	额定 rated	69	100	160	200	250	320	330	352	360	420
	连续 cont.	72	100	195	240	300	360	450	540	550	580
	断续 int.	83	126	220	280	340	430	500	610	690	690
	峰值 peak	105	165	270	320	370	460	560	710	840	830
最大输出功率 Max. output (kw)	连续 cont.	8.5	9.5	12.5	13.0	12.5	12.5	11.0	10.0	9.0	7.5
	断续 int.	9.8	11.2	15.0	15.0	14.5	14.0	13.0	12.0	10.0	9.0
最高工作压差 Max. pressure drop (MPa)	额定 rated	14.0	14.0	14.0	14.0	14.0	14.0	12.0	11.0	8.5	8.5
	连续 cont.	14.0	14	17.5	17.5	17.5	16.5	17.5	17.5	13.5	11.5
	断续 int.	16.5	17.5	20	20	20	20	20	20	17.5	15
	峰值 peak	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	21	17.5
最大流量 Max. flow (L/min)	额定 rated	40	40	55	55	55	55	55	55	55	55
	连续 cont.	45	50	60	60	60	60	60	60	60	60
	断续 int.	55	60	75	75	75	75	75	75	75	75
重量 Weight (kg)		6.5	6.7	6.9	7	7.3	7.6	8.0	8.5	9.0	9.5

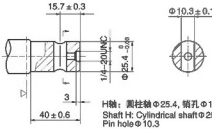
* 额定转速、扭矩是指在额定流量、压力下的输出值。
* 连续值是指该排量马达可以连续工作的最大值 。
* 断续值是指该排量马达在1分钟内工作6秒的最大值。
* 峰值是指该排量马达在1分钟内工作0.6秒的最大值。

* Rated speed and rated torque: output value of speed and torque under rated flow and rated pressure;
* Continuous pressure: Max.value of operating motor continuously;
* Intermittent prasure: Max.value of operating motor in 6 seconds per minute;
* Peak pressure: Max.value of operating motor in 0.6 second per minute.

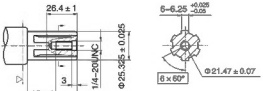
BMRS 轴伸连接尺寸/ BMRS Output Shaft Dimensions



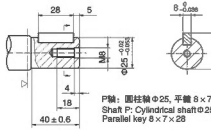
K轴：圆柱轴Φ25.4, 半圆键Φ25.4 × 6.35
Shaft K: Cylindrical shaft Φ25.4
Woodruff key Φ25.4 × 6.35



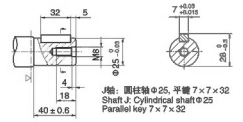
H轴：圆柱轴Φ25.4, 销孔Φ10.3
Shaft H: Cylindrical shaft Φ25.4
Pin hole Φ10.3



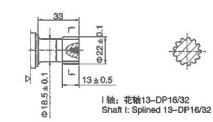
S轴：花键SAE 6B
Shaft S: Splined SAE 6B



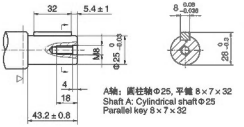
P轴：圆柱轴Φ25, 平键 8 × 7 × 28
Shaft P: Cylindrical shaft Φ25
Parallel key 8 × 7 × 28



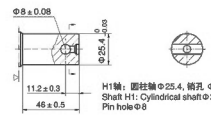
J轴：圆柱轴Φ25, 平键 7 × 7 × 32
Shaft J: Cylindrical shaft Φ25
Parallel key 7 × 7 × 32



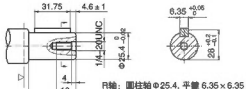
I 轴：花轴13–DP16/32
Shaft I: Splined 13–DP16/32



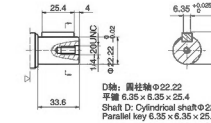
A轴：圆柱轴Φ25, 平键 8 × 7 × 32
Shaft A: Cylindrical shaft Φ25
Parallel key 8 × 7 × 32



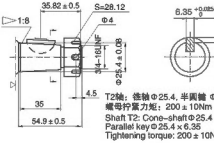
H1轴：圆柱轴Φ25.4, 销孔 Φ8
Shaft H1: Cylindrical shaft Φ25.4
Pin hole Φ8



R轴：圆柱轴Φ25.4, 平键 6.35 × 6.35 × 31.75
Shaft R: Cylindrical shaft Φ25.4
Parallel key 6.35 × 6.35 × 31.75



D轴：圆柱轴Φ22.22
平键 6.35 × 6.35 × 25.4
Shaft D: Cylindrical shaft Φ22.22
Parallel key 6.35 × 6.35 × 25.4



T2轴：锥轴Φ25.4, 半圆键 Φ25.4 × 6.35
螺母拧紧力矩：200 ± 10Nm
Shaft T2: Cone–shaft Φ25.4
Parallel key Φ25.4 × 6.35
Tightening torque: 200 ± 10Nm

▷ 马达安装面
Motor Mounting Surface

订货信息/ Order Information

1	2	3		4		5		6		7		8	
型号	排量	法兰、止口		轴 伸		油口、外泄口		旋向工况		油漆选项		特殊功能	
BMRS	36 50 80 100 125 160 200 250 315 375	H2 H6 H4 H5	2–Φ13.5菱法兰，止口Φ82..5×2.8 4–Φ13.5菱法兰，止口Φ82..5×2.8 4–3/8–16方法兰，止口Φ44.4×2.8 4–M10方法兰，止口Φ44.4×2.8	K S A R H H1 D I T2 J	Φ25.4轴，半圆键Φ25.4×6.35 Φ25.4小轴，花键SAE 6B Φ25轴，平键8×7×32 Φ25.4轴，平键6.35×6.35×31.75 Φ25.4轴，销孔Φ10.3 Φ25.4轴，销孔Φ8 Φ22.22轴，平键6.35×6.35×25.4 Φ22.2轴，花键13–DP16/32 Φ25.4锥轴，半圆键Φ25.4×6.35 Φ25轴，平键7×7×32	G S P T R B4 B5 M1 M2 M3	G1/2，G1/4 7/8–14 O–ring，7/16–20UNF 1/2–14 NPTF，7/16–20UNF 3/4–16 O–ring，7/16–20UNF PT(Rc)1/2，PT(Rc)1/4 Φ10 O–ring 板式4×5/16–18UNC，7/16–20UNF Φ10 O–ring 板式4×M8 G1/4 M18×1.5，M10×1 M20×1.5，M10×1 M22×1.5，M10×1	无 R	标准 反向	00 无 B S	不油漆 蓝漆 黑漆 银灰漆	无 N 0 F LS	常规 大径向力 无外泄 自由转动 低转速

注：用户在使用订货信息时，将马达结构、排量、安装法兰、轴伸、进出油口等信息，选择左侧作色部位的代号按上图格式写给我们即可。若所选规格不在上述表中或特殊要求，请与我们联系。
B、F、FD、G、T3 轴伸规格不能和 H4、H5安装法兰同时选用。(即H4、H5选用小于Φ28.56轴径)。

1	2	3		4		5		6		7		8	
Type	Displacement	Flange		Output shaft		Ports and drain port		Rotation direction		Paint		Unusually function	
BMRS	36 50 80 100 125 160 200 250 315 375	H2 H6 H4 H5	2–Φ13.5Rhomb–flange, pilotΦ82.5×2.8 4–Φ13.5Rhomb–flange, pilotΦ82.5×2.8 4–3/8–16 Square–flange, pilotΦ44.4×2.8 4–M10 Square–flange, pilotΦ44.4×2.8	K S A R H H1 D I T2 P J	ShaftΦ25.4, Woodruff KeyΦ25.4×6.35 Sub–shaftΦ25.4, splined tooth SAE 6B ShaftΦ25, parallel key 8×7×32 ShaftΦ25.4, parallel key 6.35×6.35×31.75 Sub–shaftΦ25.4, Pin holeΦ10.3 ShaftΦ25.4, pin holeΦ8 ShaftΦ22.22, parallel key 6.35×6.35×25.4 ShaftΦ22.22, splined tooth 13–DP16/32 Cone shaftΦ25.4, woodruff keyΦ25.4×6.35 ShaftΦ25, parallel Key 8×7×28 ShaftΦ25, parallel Key 7×7×32	G S P T R B4 B5 M1 M2 M3	G1/2, G1/4 7/8–14 O–ring 7/16–20UNF(G1/4) 1/2–14 NPTF, 7/16–20UNF(G1/4) 3/4–16 O–ring, 7/16–20UNF PT(Rc)1/2, PT(Rc)1/4 Φ10 O–ring manifold 4×5/16–18, 7/16–20UNF Φ10 O–ring manifold 4×M8, G1/4 M18×1.5, M10×1 M20×1.5, M10×1 M22×1.5, M10×1	Omit R	Standard Opposite	00 Omit B S	No paint Blue Black Silver grey	Omit N1 0 F LS	Standard Big radial force No case drain Free Running Low Speed

Note: When the table is used, please fill the code of left rows in dash area and give us, which the code information is consists of construction, displacement, mounting flange, output shaft and ports.
If the specification is not in the table or you have specific requirements, please contact us.