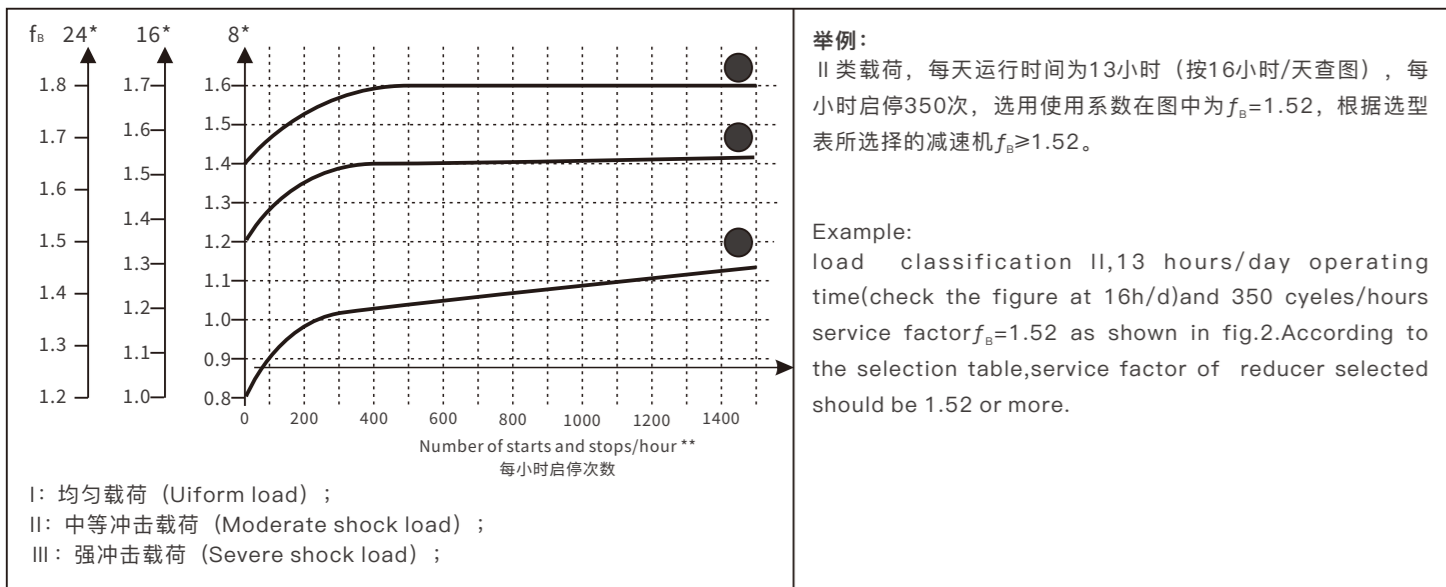


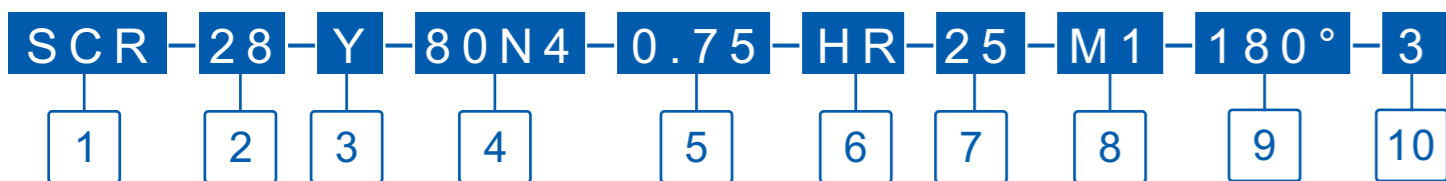
● 使用系数 Service factor

选用减速机要考虑一定的使用系数（用 f_s 表示），使用系数 f_s 由每天运行时间和启停频率所决定，根据三种负载类型，可从图中确定读取驱动方案的使用系数。从图中确定的使用系数一定要小于或等于从选型表中所给的使用系数。

When it comes to selecting a gearbox, service factor (short for f_s) must be taken into consideration. And the f_s depends on daily operating time and start-up frequency. The graph below shows f_s figure at three load classification condition, the f_s from the graph is for reference. The f_s to be chosen from this graph should match f_s requirement as stated in the selection table.



● 型号表示 Model representation



1	产品代码: SCR: 卧式, SCRF: 立式 Product type: SCR: horizontal, SCRF: vertical
2	输出轴直径 Output shaft diameter: 18, 22, 28, 32, 40, 50
3	电机类型: Y:三相异步电机, YE3/YE4: 三级能效/二级能效电机, YEJ:制动三相异步电动机, SMT: 同步电机, SMQ340: 伺服驱动一体机 Motor type: Y: three-phase asynchronous motor, YE3/YE4: three-level energy efficiency/two-level energy efficiency motor, YEJ: braking three-phase asynchronous motor, SMT: synchronous motor, SMQ340: servo drive control machine
4	电机规格: 80 N: 定子铁心长度代号 电动机极数为: 4 Motor specifications: 80: motor specifications, N: stator core length code, 4: number of motor poles
5	电机功率: 0.75KW Motor power 0.75KW
6	刹车电机释放装置代码: HR表示不带自锁功能的刹车手柄, 无代号表示不带手动释放装置 Brake motor release device code: HR means no self-locking function brake handle, no code means no manual release device
7	减速机传动比 Reducer transmission ratio: 3, 5, 10, 15, 20, 25, 30, 40, 45, 50, 60, 70, 80, 90
8	安装方式 Installation mode: M1, M2, M3, M4, M5, M6
9	接线盒位置 Junction box Angle: 0°, 90°, 180°, 270°
10	出线口角度: 默认X不用写, 1, 2, 3 Outlet Angle: Default X no display, 1,2,3



星光传动官方网站



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XG-A-01-2024/08-1000



SCR系列齿轮马达减速机

SCR SERIES GEAR MOTOR REDUCER

动静之间 · 唯简不凡



● 产品说明 Product description

星光SCR系列齿轮马达是一种低温升、低噪音、高效率的齿轮减速机；产品遵循模块化、最优化设计理念，运用有限元分析技术，采用独特的低噪音齿轮齿形设计、确保设计的先进性；本产品具有体积小、承载能力强、运转平稳、使用可靠、寿命长、免维护等特点。可与变频器组成多种形式的变速减速机，可满足客户不同的需求。

Starshine SCR series gear motor is a low temperature, low noise, high efficiency gear reducer; Products follow the modular, optimized design concept, the use of finite element analysis technology, the use of unique low noise gear tooth shape design, to ensure the advanced design; This product has the characteristics of small size, strong bearing capacity, stable operation, reliable use, long life, maintenance-free and so on. It can be composed of various forms of variable speed reducer with frequency converter to meet the different needs of customers.

● 性能特性 Characteristics

- 1、能耗低、噪音低、振动小，减速机的效率可高达92%~96%。
- 2、采用特制宽频宽压电机，满载时可在频率20Hz~60Hz范围内正常使用。
- 3、零部件均采用模块化生产，互换性强。
- 4、配置专用刹车电机，采用快速制动整流器。
- 5、齿轮副采用渗碳淬火热处理工艺采用独特的低噪音齿形齿向设计，确保产品的使用寿命，同时保证设计的先进性。
- 6、扭力大、体积小、温升低、输出速度范围广。
- 7、采用专用齿轮润滑油，保证减速机正常运转20000小时内免维护。

- 1, low energy consumption, low noise, low vibration, the efficiency of the reducer can be as high as 92~96%.
- 2, the use of special wide frequency voltage motor, full load can be used in the frequency of 20Hz~60Hz range.
- 3, parts are modular production, strong interchangeability.
- 4, configure special brake motor, using fast brake rectifier.
- 5, the gear pair using carburizing quenching heat treatment process using a unique low noise tooth shape tooth design, to ensure the service life of the product, while ensuring the advanced design.
- 6, large torque, small size, low temperature rise, wide output speed range.
- 7, The use of special gear oil, to ensure the normal operation of the reducer within 20,000 hours of maintenance free.

● 应用领域 Application

本产品广泛应用于物流行业、粮油行业、畜牧行业、纺织行业、注塑行业等各行业生产自动线和工业装备的动力传动和变速传动，详情请向我公司咨询。

This product is widely used in logistics industry, grain oil industry, animal husbandry industry, textile industry, injection molding industry and other industries production automatic line and industrial equipment power transmission and variable speed transmission, details clear to our company consultation.

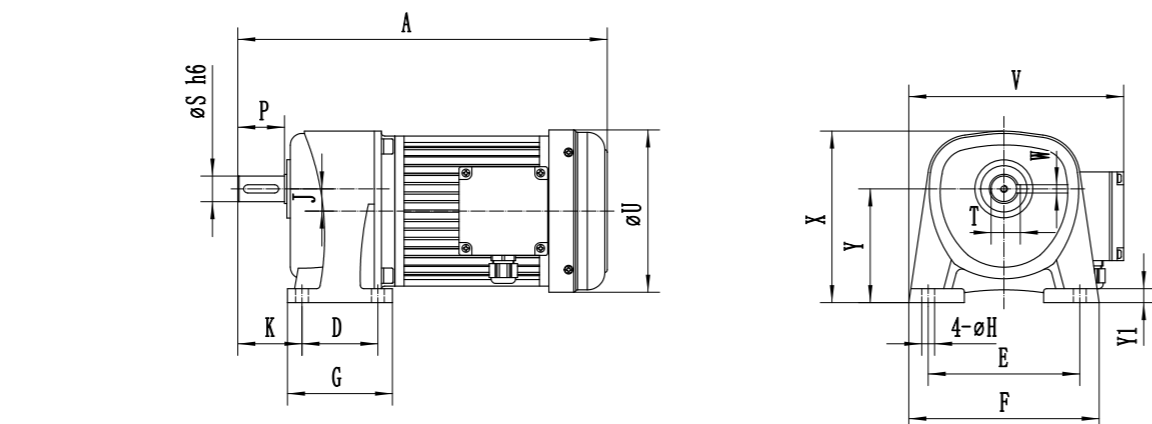
减压器选型表 Gear unit selection tables

公称速比 Nominal speed ratio		3	5	10	15	20	25	30	40	45	50	60	70	80	90				
0.12KW	输出轴规格 Output shaft specification	φ18											φ22						
	输出转速 Output speed[r / min]	460	276	138	92	69	55	46	35	31	28	23	20	17	15				
	输出扭矩 Output torque[N . m]	2	4	8	12	16	20	24	32	36	40	48	56	64	72				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	360	588	882	980	1180	1270	1370	1470	1510	1570	2160	2300	2450	2450				
0.18KW	输出轴规格 Output shaft specification	φ18											φ22						
	输出转速 Output speed[r / min]	460	276	138	92	69	55	46	35	31	28	23	20	17	15				
	输出扭矩 Output torque[N . m]	4	6	8	12	16	20	36	48	54	60	72	84	96	108				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	360	588	882	980	1180	1270	1370	1470	1510	1570	2160	2300	2450	2450				
0.25KW	输出轴规格 Output shaft specification	φ22											φ28						
	输出转速 Output speed[r / min]	463	278	139	93	70	56	46	35	31	28	23	20	17	15				
	输出扭矩 Output torque[N . m]	5	8	16	25	33	41	49	66	74	82	99	115	132	148				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	468	764.4	1146.6	1274	1534	1651	1781	1911	1963	2041	2808	2990	3185	3185				
0.37KW	输出轴规格 Output shaft specification	φ22											φ28						
	输出转速 Output speed[r / min]	463	278	139	93	70	56	46	35	31	28	23	20	17	15				
	输出扭矩 Output torque[N . m]	7	12	24	37	49	61	73	98	110	122	146	171	195	220				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	540	882	1323	1470	1770	1905	2055	2205	2265	2355	3240	3450	3675	3675				
0.55KW	输出轴规格 Output shaft specification	φ22											φ28				φ32		
	输出转速 Output speed[r / min]	467	280	140	93	70	56	47	35	31	28	23	20	18	16				
	输出扭矩 Output torque[N . m]	11	18	36	54	72	90	108	144	162	180	216	252	288	324				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	1008	1646.4	2469.6	2744	3304	3556	3836	4116	4228	4396	6048	6440	6860	6860				
0.75KW	输出轴规格 Output shaft specification	φ28											φ32						
	输出转速 Output speed[r / min]	467	280	140	93	70	56	47	35	31	28	23	20	18	16				
	输出扭矩 Output torque[N . m]	15	25	49	74	98	123	147	196	221	246	295	344	393	442				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	1080	1270	1760	2160	2350	2450	4020	4210	4530	4610	5490	5880	7060	7060				
1.1KW	输出轴规格 Output shaft specification	φ32											φ40						
	输出转速 Output speed[r / min]	470	282	141	94	71	56	47	35	31	28	24	20	18	16				
	输出扭矩 Output torque[N . m]	21	36	72	107	143	179	215	286	322	358	429	501	572	644				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	1500	1760	2450	2840	3230	3820	5100	5880	6200	6200	6200	6200	7060	7060				
1.5KW	输出轴规格 Output shaft specification	φ32											φ40						
	输出转速 Output speed[r / min]	470	282	141	94	71	56	47	35	31	28	24	20	18	16				
	输出扭矩 Output torque[N . m]	29	49	98	146	195	244	293	390	439	488	585	683	780	878				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	1500	1760	2450	2840	3230	3820	5100	5880	6200	7060	7060	7060	7060	7060				
2.2KW	输出轴规格 Output shaft specification	φ40											φ50						
	输出转速 Output speed[r / min]	473	284	142	95	71	57	47	36	32	28	24	20	18	16				
	输出扭矩 Output torque[N . m]	43	71	142	213	284	355	426	568	639	710	852	994	1136	1278				
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	4100	4940	5340	5800	6100	7060	7060	7060	7060	9800	9800	9800	9800	9800				

公称速比		3	5	10	15	20	25	30	40	45	50	60	70	80	90	
3KW	输出轴规格 Output shaft specification	φ40											φ50			
	输出转速 Output speed[r / min]	473	284	142	95	71	57	47	36	32	28	24	20	18	16	
	输出扭矩 Output torque[N . m]	58	97	194	291	387	484	581	775	872	968	1162	1356	1550	1743	
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	7060	7060	7060	7060	7060	7060	7060	9800	9800	9800	9800	9800	9800	9800	
4KW	输出轴规格 Output shaft specification	φ40											φ50			
	输出转速 Output speed[r / min]	477	286	143	95	72	57	48	36	32	29	24	20	18	16	
	输出扭矩 Output torque[N . m]	77	128	256	385	513	641	769	1026	1154	1282	1539	1795	2052	2308	
	出轴许用径向负载 F_{r0} Radial load F is allowed on the outlet shaft	7060	7060	7060	7060	7060	7060	7060	9800	9800	9800	9800	9800	9800	9800	

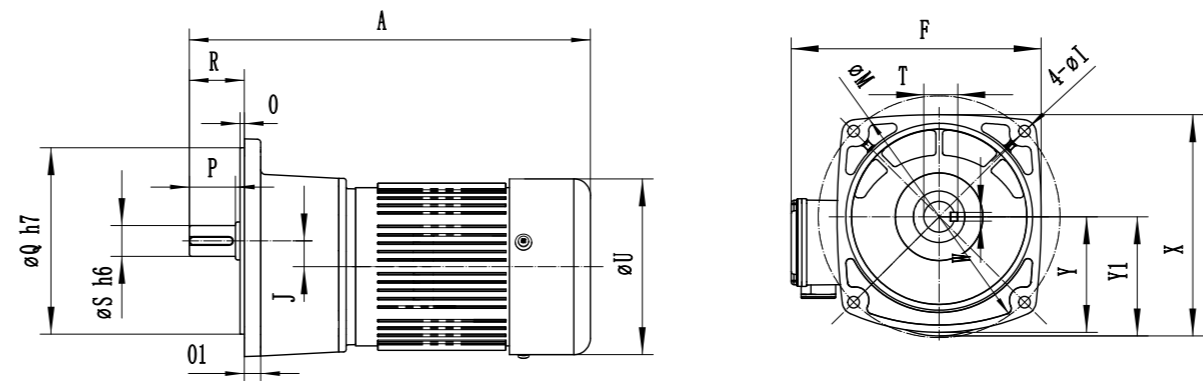
产品安装尺寸 Product installation dimensions

SCR系列底脚安装带三相异步电机尺寸 SCR series foot mounting with three-phase asynchronous motor size specifications



功率 power [kW]	输出轴 output shaft [mm]	主要外形及安装尺寸 outline dimension																	
		A		D	E	F	J	G	H	K	P	S	T	U	V	W	X	Y	Y1
		标准型 standard	制动型 brake																
0.12KW	φ18	236	270	40	110	135	16	65	9	45	30	18	20.2	129	183	5	132	88.5	10
	φ22	262	296	65	130	163	18.2	90	11	56	40	22	25	129	193	7	152	97.5	12
0.18KW	φ18	236	270	40	110	135	16	65	9	45	30	18	20.2	129	183	5	132	88.5	10
	φ22	262	296	65	130	163	18.2	90	11	56	40	22	25	129	193	7	152	97.5	12
0.25KW	φ22	293	326	65	130	163	18.2	90	11	56	40	22	25	129	193	7	152	97.5	12
	φ28	306	339.5	90	140	180	20.8	122	11	65	45	28	31.1	129	203	7	180	116	15
0.37KW	φ22	314	344.5	65	130	163	18.2	90	11	56	40	22	25	139	199.5	7	152	97.5	12
	φ28	330	367.5	90	140	180	20.8	122	11	65	45	28	31.1	139	210	7	180	116	15
0.55KW	φ22	324	364.5	65	130	163	18.2	90	11	56	40	22	25	139	199.5	7	152	97.5	12
	φ28	350.5	383.5	90	140	180	20.8	122	11	65	45	28	31.1	159	222	7	180	116	15
0.75KW	φ32	379.5	417	130	170	215	30.2	160	13	76	55	32	35.5	159	238.5	10	210	140	18
	φ28	350.5	383.5	90	140	180	20.8	122	11	65	45	28	31.1	159	222	7	180	116	15
1.1KW	φ32	379.5	413	130	170	215	30.2	160	13	76	55	32	35.5	159	238.5	10	210	140	18
	φ40	420.5	451	130	170	215	30.2	160	13	76	55	32	35.5	185	250.5	10	210	140	18
1.5KW	φ32	420.5	451	130	170	215	30.2	160	13	76	55	32	35.5	185	250.5	10	210	140	18
	φ40	457.5	488	150	210	260	34.2	185	15	80	65	40	43.5	185	260	10	248	162	20
2.2KW	φ40	466.5	497	150	210	260	34.2	185	15	80	65	40	43.5	185	260	10	248	162	20
	φ50	510.5	541	170	265	330	51.7	200	18	104	80	50	54	185	288	14	315	200	25
3KW	φ40	490.5	527	150	210	260	34.2	185	15	80	65	40	43.5	185	260	10	248	162	20
	φ50	540.5	581	170	265	330	51.7	200	18	104	80	50	54	185	288	14	315	200	25
4KW	φ40	536.5	577	150	210	260	34.2	185	15	80	65	40	43.5	185	260	10	248	162	20
	φ50	590.0	631	170	265	330	51.7	200	18	104	80	50	54	185	288	14	315	200	25

SCR系列法兰安装带三相异步电机尺寸规格 SCR series flanged mounting with three-phase asynchronous motor size specifications



功率 power [kW]	输出轴 output shaft [mm]	主要外形及安装尺寸 outline dimension																	
		A		F	T	J	M	O	01	P	Q	R	S	T	U	W	X	Y	Y1
		标准型 standard	制动型 brake																
0.12KW	φ18	236	270	192.5	11	16	140	4	12	30	50	38	18	20.2	129	5	132	80	81
	φ22	262	296	197.5	11	18.2	185	4	12	40	148	49	22	25	129	7	152	89.5	83.5
0.18KW	φ18	236	270	192.5	11	16	140	4	12	30	50	38	18	20.2	129	5	132	80	81
	φ22	262	296	197.5	11	18.2	185	4	12	40	148	49	22	25	129	7	152	89.5	83.5
0.25KW	φ22	267	300	192.5	11	16	140	4	12	30	50	38	18	20.2	129	5	132	80	81
	φ28	293	336	197.5	11	18.2	185	4	12	40	148	49	22	25	129	7	152	89.5	83.5
0.37KW	φ22	314	344.5	197.5	11	18.2	185	4	12	40	148	49	22	25	129	7	152	89.5	88.5
	φ28	330	377.5	208.5	11	20.8	220	4	15	45	170	57	28	31.1	139	7	180	105.5	93
0.55KW	φ22	344	384.5	197.5	11	18.2	185	4	12	40	148	49	22	25	129	7	152	89.5	88.5
	φ32	379.5	417	242	13	30.2	255	4	17	55	185	67							