

Roller gear cam drive Standard/Table type

Characteristics table

Product specifications

[series : RGIS050,RGIT063]

Motor model No. [Nissei]	Output (kW)	Actual reduction ratio (i:r)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Trr (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)			
			50Hz	60Hz	50Hz	60Hz					
F3S20N20-MM01TNNNTNX	0.1	20	75	90	11	8.6	4.8 × 10 ⁻⁴	6.5			
F3S20N25-MM01TNNNTNX		25	60	72	13	11					
F3S20N30-MM01TNNNTNX		30	50	60	16	13					
F3S20N40-MM01TNNNTNX		40	37.5	45	21	18					
F3S20N50-MM01TNNNTNX		50	30	36	25	22					
F3S20N60-MM01TNNNTNX		60	25	30	31	25					
F3S25N10-MM02TNNNTNX		0.2	10	150	180	11			9.2	5.3 × 10 ⁻⁴	8.5
F3S25N15-MM02TNNNTNX			15	100	120	17			14		
F3S25N20-MM02TNNNTNX			20	75	90	23			19		
F3S25N25-MM02TNNNTNX			25	60	72	27			24		
F3S25N30-MM02TNNNTNX	30		50	60	33	27					
F3S25N40-MM02TNNNTNX	40		37.5	45	44	37					
F3S25N50-MM02TNNNTNX	50		30	36	55	46					
F3S25N60-MM02TNNNTNX	60		25	30	67	55					

Compact

Standard

Table

Wide angle

Basic

Parallel cam drive

Linear, Circular, Rack and Pinion

Option

[series : RGIS063,RGIT080]

Motor model No. [Nissei]	Output (kW)	Actual reduction ratio (i:r)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Trr (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)			
			50Hz	60Hz	50Hz	60Hz					
F3S25N20-MM02TNNNTNX	0.2	20	75	90	23	19	5.3 × 10 ⁻⁴	8.5			
F3S25N25-MM02TNNNTNX		25	60	72	27	24					
F3S25N30-MM02TNNNTNX		30	50	60	33	27					
F3S25N40-MM02TNNNTNX		40	37.5	45	44	37					
F3S25N50-MM02TNNNTNX		50	30	36	55	46					
F3S25N60-MM02TNNNTNX		60	25	30	67	55					
F3S30N10-MM04TNNNTNX		0.4	10	150	180	23			19	1.1 × 10 ⁻³	11.5
F3S30N15-MM04TNNNTNX			15	100	120	33			27		
F3S30N20-MM04TNNNTNX			20	75	90	44			37		
F3S30N25-MM04TNNNTNX			25	60	72	55			46		
F3S30N30-MM04TNNNTNX	30		50	60	67	55					
F3S30N40-MM04TNNNTNX	40		37.5	45	88	74					
F3S30N50-MM04TNNNTNX	50		30	36	111	92					
F3S30N60-MM04TNNNTNX	60		25	30	133	111					

[series : RGIS080,RGIT110]

Motor model No. [Tsubaki Emerson]	Output (kW)	Actual reduction ratio (i:r)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Trr (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)			
			50Hz	60Hz	50Hz	60Hz					
F3S30N20-MM04TNNNTNX	0.4	20	75	90	44	37	1.1 × 10 ⁻³	11.5			
F3S30N25-MM04TNNNTNX		25	60	72	55	46					
F3S30N30-MM04TNNNTNX		30	50	60	67	55					
F3S30N40-MM04TNNNTNX		40	37.5	45	88	74					
F3S30N50-MM04TNNNTNX		50	30	36	111	92					
F3S30N60-MM04TNNNTNX		60	25	30	133	111					
F3S35N10-MD08TNNNTNX		0.75	10	150	180	41			34	3.2 × 10 ⁻³	21
F3S35N15-MD08TNNNTNX			15	100	120	63			52		
F3S35N20-MD08TNNNTNX			20	75	90	83			70		
F3S35N25-MD08TNNNTNX			25	60	72	104			86		
F3S35N30-MD08TNNNTNX	30		50	60	124	104					
F3S35N40-MD08TNNNTNX	40		37.5	45	166	138					
F3S35N50-MD08TNNNTNX	50		30	36	208	173					
F3S35N60-MD08TNNNTNX	60		25	30	249	208					

[series : RGIS110,RGIT140]

Motor model No. [Tsubaki Emerson]	Output (kW)	Actual reduction ratio (i:r)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Trr (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)			
			50Hz	60Hz	50Hz	60Hz					
F3S35N20-MD08TNNNTNX	0.75	20	75	90	83	70	3.2 × 10 ⁻³	21			
F3S35N25-MD08TNNNTNX		25	60	72	104	86					
F3S35N30-MD08TNNNTNX		30	50	60	124	104					
F3S35N40-MD08TNNNTNX		40	37.5	45	166	138					
F3S35N50-MD08TNNNTNX		50	30	36	208	173					
F3S35N60-MD08TNNNTNX		60	25	30	249	208					
F3S45N10-MD15TNNNTNX		1.5	10	150	180	83			70	6.2 × 10 ⁻³	35.5
F3S45N15-MD15TNNNTNX			15	100	120	124			104		
F3S45N20-MD15TNNNTNX			20	75	90	166			138		
F3S45N25-MD15TNNNTNX			25	60	72	208			173		
F3S45N30-MD15TNNNTNX	30		50	60	249	208					
F3S45N40-MD15TNNNTNX	40		37.5	45	332	276					
F3S45N50-MD15TNNNTNX	50		30	36	416	345					
F3S45N60-MD15TNNNTNX	60		25	30	498	416					

[series : RGIS140, RGIT180]

Motor model No. [Nissei]	Output (kW)	Actual reduction ratio (i:r)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Trr (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)
			50Hz	60Hz	50Hz	60Hz		
F3S45N20-MD15TNNTNX	1.5	20	75	90	166	138	6.2 × 10 ⁻³	35.5
F3S45N25-MD15TNNTNX		25	60	72	208	173		
F3S45N30-MD15TNNTNX		30	50	60	249	208		
F3S45N40-MD15TNNTNX		40	37.5	45	332	276		
F3S45N50-MD15TNNTNX		50	30	36	416	345		
F3S45N60-MD15TNNTNX		60	25	30	498	416		
F3S45N60-MD15TNNTNX		60	25	30	498	416		
Motor model No. [Tsubakimoto Chain]	Output (kW)	Actual reduction ratio (i:r)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Trr (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)
			50Hz	60Hz	50Hz	60Hz		
HMTR220-45H10 F1S5	2.2	10	150	180	122	102	8.8 × 10 ⁻³	43
HMTR220-45H15 F1S5		15	100	120	182	152		
HMTR220-45H20 F1S5		20	75	90	244	203		
HMTR220-45H25 F1S5		25	60	72	290	242		
HMTR220-45H30 F1S5		30	50	60	349	290		
HMTR220-45H40 F1S5		40	37.5	45	465	387		
HMTR220-45H50 F1S5		49.286	30	36	581	484		
HMTR220-45H60 F1S5		60	25	30	697	581		
HMTR220-45H60 F1S5		60	25	30	697	581		
HMTR220-45H60 F1S5		60	25	30	697	581		

[series : RGIS180, RGIT250]

Motor model No. (SEW)	Output (kW)	Actual reduction ratio (i:r)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Trr (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)
			50Hz	60Hz	50Hz	60Hz		
SHF 67 DRN 100L4 1/20.37	2.2	20.37	72	86	260	220	11.2 × 10 ⁻³	63
SHF 67 DRN 100L4 1/23.33		23.33	63	75	290	240		
SHF 67 DRN 100L4 1/26.93		26.93	54	65	330	280		
SHF 67 DRN 100L4 1/29.63		29.63	49	59	360	300		
SHF 67 DRN 100L4 1/34.80		34.80	42	50	420	350		
SHF 67 DRN 100L4 1/36.85		36.85	40	48	440	370		
SHF 67 DRN 100L4 1/41.89		41.89	35	42	500	420		
SHF 67 DRN 100L4 1/46.40		46.40	31	38	550	460		
SHF 77 DRN 112M4 1/12.07		12.07	122	146	270	230		
SHF 77 DRN 112M4 1/15.28		15.28	96	115	340	290		
SHF 77 DRN 112M4 1/20.99	20.99	70	84	460	390			
SHF 77 DRN 112M4 1/25.07	25.07	59	70	540	450			
SHF 77 DRN 112M4 1/28.41	28.41	52	62	610	510			
SHF 77 DRN 112M4 1/32.38	32.38	45	54	690	580			
SHF 77 DRN 112M4 1/35.94	35.94	41	49	760	640			
SHF 77 DRN 112M4 1/41.07	41.07	36	43	860	730			
SHF 77 DRN 112M4 1/43.33	43.33	34	41	910	770			
SHF 77 DRN 112M4 1/49.38	49.38	30	36	1030	870			
SHF 77 DRN 112M4 1/53.87	53.87	27	33	1120	950			
SHF 77 DRN 112M4 1/56.92	56.92	26	31	1040	880			

[series : RGIS250]

Motor model No. (SEW)	Output (kW)	Actual reduction ratio (i:r)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Trr (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)
			50Hz	60Hz	50Hz	60Hz		
SHF 87 DRN 132S4 1/19.70	5.5	19.7	74	89	660	550	24.1 × 10 ⁻²	150
SHF 87 DRN 132S4 1/25.50		25.5	57	69	850	710		
SHF 87 DRN 132S4 1/31.43		31.43	47	56	1020	850		
SHF 87 DRN 132S4 1/34.96		34.96	42	50	1130	940		
SHF 87 DRN 132S4 1/39.10		39.1	37	45	1260	1050		
SHF 87 DRN 132S4 1/44.03		44.03	33	40	1410	1180		
SHF 87 DRN 132S4 1/47.91		47.91	31	37	1530	1280		
SHF 87 DRN 132S4 1/57.00		57	26	31	1810	1520		
SHF 87 DRN 132M4 1/10.93		10.93	134	161	500	420		
SHF 87 DRN 132M4 1/15.64		15.64	94	113	710	600		
SHF 87 DRN 132M4 1/19.70	19.7	75	89	900	750			
SHF 87 DRN 132M4 1/25.50	25.5	58	69	1150	960			
SHF 87 DRN 132M4 1/31.43	31.43	47	56	1380	1160			
SHF 87 DRN 132M4 1/34.96	34.96	42	50	1530	1280			
SHF 87 DRN 132M4 1/39.10	39.1	38	45	1710	1430			
SHF 87 DRN 132M4 1/44.03	44.03	33	40	1920	1610			

Product specifications

Compact

Standard

Roller gear cam drive

Table

Wide angle

Basic

Parallel cam drive

Pics and
Pics drive
Linear
Circular

Option

Characteristics table

[series RGIB250]

The values in parentheses () are the weight of motor plate.

Motor model No. [Nissei]	Output (kW)	Actual reduction ratio (ir)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Tir (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)
			50Hz	60Hz	50Hz	60Hz		
F3S45N10-MD22TNNTNX	2.2	10	150	180	122	102	10.5 × 10 ⁻³	42
F3S45N15-MD22TNNTNX		15	100	120	182	152		
F3S45N20-MD22TNNTNX		20	75	90	244	203		
F3S45N25-MD22TNNTNX		25	60	72	305	254		
F3S45N30-MD22TNNTNX		30	50	60	366	305		
F3S45N40-MD22TNNTNX		40	37.5	45	487	406		
F3S50N50-MD22TNNTNX		50	30	36	609	508		51
F3S50N60-MD22TNNTNX		60	25	30	731	609		
Motor model No. [Tsubakimoto Chain]	Output (kW)	Actual reduction ratio (ir)	Output shaft rotational speed Nrs (rpm)		Output shaft allowable torque Tir (N·m)		Moment of inertia of the motor Jm (kg·m ²)	Weight (kg)
			50Hz	60Hz	50Hz	60Hz		
HMTR370-55H10 F1	3.7	10	150	180	205	171	16.7 × 10 ⁻³	80
HMTR370-55H15 F1		15	100	120	308	256		
HMTR370-55H20 F1		20	75	90	410	341		
HMTR370-55H25 F1		25	60	72	489	407		
HMTR370-55H30 F1		30	50	60	586	489		
HMTR370-55H40 F1		40	37.5	45	782	652		
HMTR370-55H50 F1		50	30	36	977	814		
HMTR370-55H60 F1		60	25	30	1176	977		

Product specifications

Roller gear cam drive

Option

Linear Drive

Circular Drive

Wide angle

Basic

Table

Standard

Compact