

# Cross Safeguard Overload Clutches



## CS Mini Series Clutches

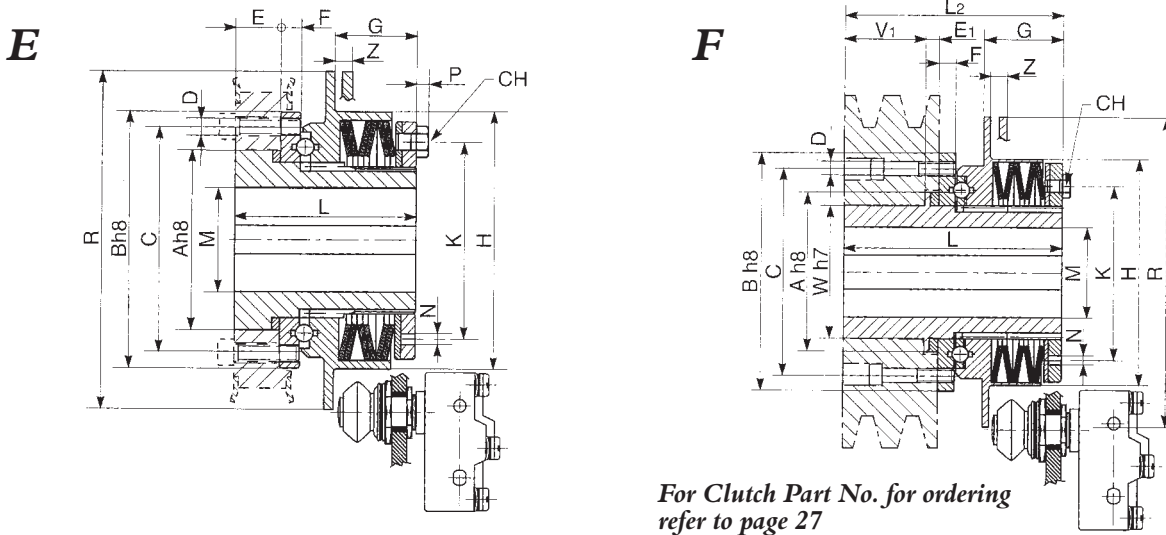
The CS Mini series of clutches is available in 4 basic sizes with simple overload, and synchronous overload facility. These lower cost units are offered with two methods to attach sprockets, gears, or pulleys.

Type E - allows connection of driven gear with its own external bearing support.

Type F - has extended inner race suitable to mount larger pulleys with a bronze or needle roller bearing.

Four torque ranges are available on standard units, and three on the synchronous version, providing a wide range of torque capacity to select from.

The series is suitable for moderate speed applications with low radial forces and infrequent tripping. The design is suited to inline stop switch, or proximity switch.



For Clutch Part No. for ordering refer to page 27

### CS Mini Series - Technical Capacities

Models* E & F	Torque Range according to Spring Selection				Max. Speed		Bore size		Weight kg	Inertia kgcm <sup>2</sup>
	S Nm	M Nm	L Nm	U Nm	S/M rpm	L/U rpm	min mm	max mm		
CSF20	2.5-5.0	5-10	10-20	20-40	800	800				
CSY20	5-10	10-20	20-40		700	500	7	20	0.5	2.7
CSF25	6-12	12-25	25-55	55-100	800	700				
CSY25	12-25	25-50	50-100		700	450	10	25	1.5	7.6
CSF35	12-25	25-50	50-120	120-200	800	600				
CSY35	25-50	50-100	100-200		700	400	14	35	2.5	25.0
CSF45	25-50	50-100	100-250	250-400	800	500				
CSY45	50-100	100-200	200-400		650	300	18	45	5.0	81.0

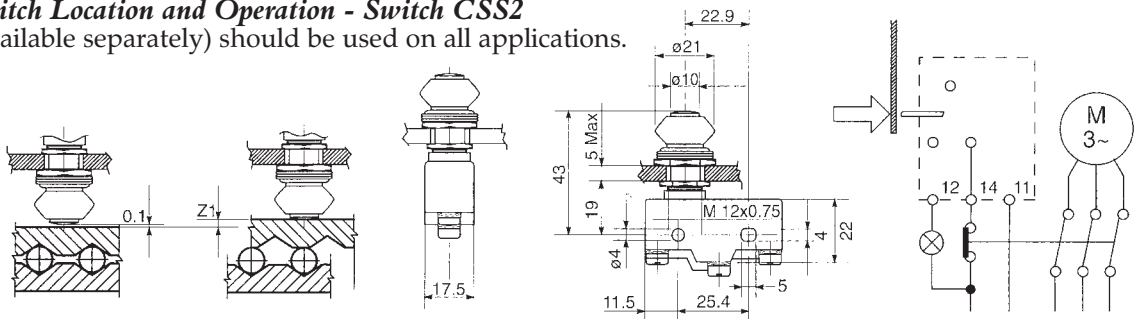
### CS Mini Series Dimensions

Models CSF & CSY	Dimensions mm																		
	Ah8	Bh8	C	D	E	E1	F	G	H	K	L	L2	N	P	R	V	V1	Wh7	CH
20	36	55	46	6xM5	11.5	4.5	5.5	21.7	53	38	50	83.5	3	2.8	80	47.5	40.5	30	7
25	46	70	59	6xM5	16.5	5.5	7.0	23.2	74	54	57	94.0	4	3.5	100	59.0	48.0	35	8
35	64	90	80	6xM6	16.5	6.5	7.0	29.0	88	70	65	108.0	4	4.0	120	85.5	53.0	50	10
45	78	115	100	6xM6	22.0	8.0	8.0	34.5	114	86	81	127.0	5	4.0	150	98.5	60.0	65	10

### Emergency Stop Switch Location and Operation - Switch CSS2

The Stop Switch (available separately) should be used on all applications.

Clutch Size	Z'	
	(1) mm	(2) mm
20	1.4	1.2
25	1.4	1.2
35	2.4	1.8
45	2.4	2.0



(1) Safeguard Mini - (2) Synchron Mini