

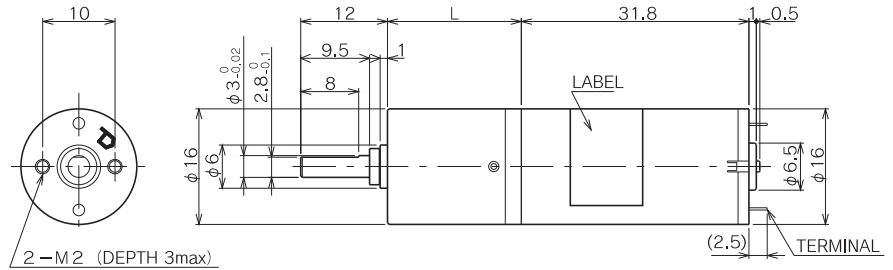
# TG-87

(1.7W)  $\phi 16$ ,  
COMPACT DESIGN.

**APPLICATION** ATM / MONEY COUNTING MACHINE / CARD READER / PRINTER / SECURITY CAMERA / CASSETTE LOADING / MEDICAL EQUIPMENT etc.

## GU

TG-87A  
TG-87B



### Allowable torque-speed characteristics GU

MODEL	GEAR RATIO	1	1	1	1	1	1	1	1	1	1	1	1	1	
		3.5	4.9	12.5	17.3	24.1	44	61.2	85.1	118	155	216	300	418	581
TG-87A-GU (12V)	SPEED (r/min)	3336	2352	939	697	485	267	189	136	97.3	74.4	53.2	38.8	28.2	20.9
	TORQUE (mN·m)	2.9	4.9	9.8	9.8	19.6	29.4	49	68.6	98	107.8	156.8	196	245	245
	TORQUE (kgf·cm)	0.03	0.05	0.1	0.1	0.2	0.3	0.5	0.7	1	1.1	1.6	2	2.5	2.5
TG-87B-GU (24V)	SPEED (r/min)	3336	2352	939	697	485	267	189	136	97.3	74.4	53.2	38.8	28.2	20.9
	TORQUE (mN·m)	2.9	4.9	9.8	9.8	19.6	29.4	49	68.6	98	107.8	156.8	196	245	245
	TORQUE (kgf·cm)	0.03	0.05	0.1	0.1	0.2	0.3	0.5	0.7	1	1.1	1.6	2	2.5	2.5

### GU

GEAR RATIO	L (mm)	STAGE	TORQUE		WEIGHT (g)
			(mN·m)	(kgf·cm)	
1/3.5 ~ 1/4.9	15.1	1	49	0.5	18
1/12.5 ~ 1/24.1	18.5	2	98	1	21
1/44 ~ 1/118	22	3	147	1.5	24
1/155	25.5	4	147	1.5	28
1/216 ~ 1/581	25.5	4	245	2.5	28

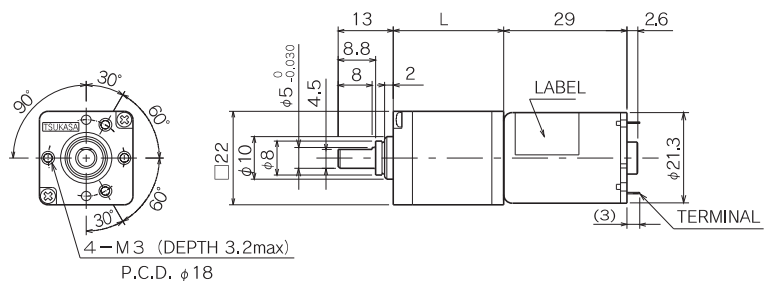
# TG-01

(0.4 ~ 0.8W)  $\phi 21.3$ ,  
COMPACT DESIGN.

**APPLICATION** ATM / MONEY COUNTING MACHINE / CARD READER / PRINTER / BLINDS / SECURITY CAMERA / CASSETTE LOADING / FINISHER / MEDICAL EQUIPMENT etc.

## EU

TG-01F  
TG-01G  
TG-01H



### Allowable torque-speed characteristics EU

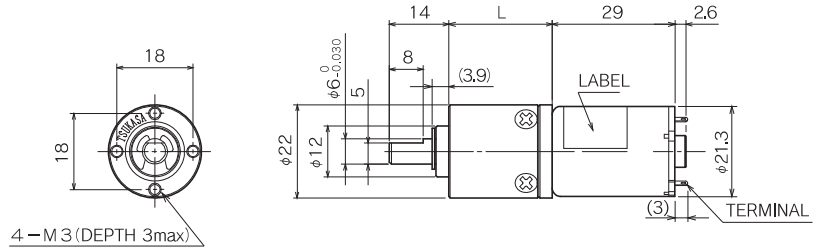
MODEL	GEAR RATIO	1	1	1	1	1	1	1	1	1	
		12.1	17.6	20.6	25.5	42.1	61.2	71.7	88.7	104	129
TG-01F-EU (24V)	SPEED (r/min)	316	225	194	149	94.1	62.6	53	43	36.7	29.5
	TORQUE (mN·m)	8.82	9.8	9.8	19.6	19.6	39.2	49	58.8	68.6	88.2
	TORQUE (kgf·cm)	0.09	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.7	0.9
TG-01G-EU (24V)	SPEED (r/min)	609	425	365	289	177	121	103	83	70.9	57.1
	TORQUE (mN·m)	8.82	8.82	9.8	19.6	19.6	39.2	49	58.8	68.6	88.2
	TORQUE (kgf·cm)	0.09	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.7	0.9
TG-01H-EU (12V)	SPEED (r/min)	600	420	361	285	175	119	101	81.8	69.9	56.3
	TORQUE (mN·m)	8.82	9.8	9.8	19.6	19.6	39.2	49	58.8	68.6	88.2
	TORQUE (kgf·cm)	0.09	0.1	0.1	0.2	0.2	0.4	0.5	0.6	0.7	0.9

### EU

GEAR RATIO	L (mm)	STAGE	TORQUE		WEIGHT (g)
			(mN·m)	(kgf·cm)	
1/12.1 ~ 1/25.5	21	2	98	1	34
1/42.1 ~ 1/129	26	3	147	1.5	36

# FU

TG-01F  
TG-01G  
TG-01H



## Allowable torque-speed characteristics

FU

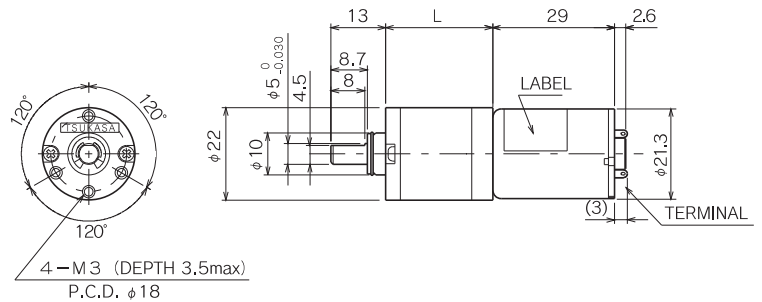
MODEL	GEAR RATIO	FU													
		1/4	1/4.7	1/16	1/19	1/23	1/64	1/76	1/90	1/107	1/256	1/304	1/361	1/429	1/509
TG-01F-FU (24V)	SPEED (r/min)	1026	855	258	220	187	63.7	53.4	44.9	37.9	15.8	13.3	11.3	9.5	8
	TORQUE (mN·m)	2.94	3.92	9.8	9.8	9.8	39.2	49	58.8	68.6	147	176.4	196	245	294
	TORQUE (kgf·cm)	0.03	0.04	0.1	0.1	0.1	0.4	0.5	0.6	0.7	1.5	1.8	2	2.5	3
TG-01G-FU (24V)	SPEED (r/min)	1919	1604	481	409	347	119	100	84.3	71.1	29.7	25	21.2	17.8	14.9
	TORQUE (mN·m)	2.94	3.92	9.8	9.8	9.8	39.2	49	58.8	68.6	147	176.4	196	245	294
	TORQUE (kgf·cm)	0.03	0.04	0.1	0.1	0.1	0.4	0.5	0.6	0.7	1.5	1.8	2	2.5	3
TG-01H-FU (12V)	SPEED (r/min)	1924	1608	482	410	348	120	100	84.5	71.3	29.8	25.1	21.2	17.8	15
	TORQUE (mN·m)	2.94	3.92	9.8	9.8	9.8	39.2	49	58.8	68.6	147	176	196	245	294
	TORQUE (kgf·cm)	0.03	0.04	0.1	0.1	0.1	0.4	0.5	0.6	0.7	1.5	1.8	2	2.5	3

FU

GEAR RATIO	L (mm)	STAGE	TORQUE		WEIGHT (g)
			(mN·m)	(kgf·cm)	
1/4 ~ 1/4.7	19.5	1	49	0.5	41
1/16 ~ 1/23	24.5	2	98	1	49
1/64 ~ 1/107	29.5	3	196	2	57
1/256 ~ 1/509	34.5	4	294	3	66

# RU

TG-01F  
TG-01G  
TG-01H



## Allowable torque-speed characteristics

RU

MODEL	GEAR RATIO	RU													
		1/3.7	1/5	1/13.4	1/18.3	1/25	1/49.3	1/67.2	1/91.7	1/125	1/181	1/246	1/336	1/458	1/625
TG-01F-RU (24V)	SPEED (r/min)	1108	815	301	227	170	82.6	60.9	44.1	33.2	23.3	17.4	12.9	9.5	7
	TORQUE (mN·m)	2.94	3.92	9.8	9.8	9.8	29.4	39.2	58.8	58.8	58.8	58.8	58.8	58.8	58.8
	TORQUE (kgf·cm)	0.03	0.04	0.1	0.1	0.1	0.3	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
TG-01G-RU (24V)	SPEED (r/min)	2079	1528	566	423	314	155	114	82.9	62	43.3	32.1	23.7	17.5	12.9
	TORQUE (mN·m)	2.94	3.92	9.8	9.8	9.8	29.4	39.2	58.8	58.8	58.8	58.8	58.8	58.8	58.8
	TORQUE (kgf·cm)	0.03	0.04	0.1	0.1	0.1	0.3	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6
TG-01H-RU (12V)	SPEED (r/min)	2084	1532	567	424	315	155	114	83.1	62.1	43.4	32.2	23.8	17.5	12.9
	TORQUE (mN·m)	2.94	3.92	9.8	9.8	9.8	29.4	39.2	58.8	58.8	58.8	58.8	58.8	58.8	58.8
	TORQUE (kgf·cm)	0.03	0.04	0.1	0.1	0.1	0.3	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.6

RU

GEAR RATIO	L (mm)	STAGE	TORQUE		WEIGHT (g)
			(mN·m)	(kgf·cm)	
1/3.7 ~ 1/5	15.5	1	29.4	0.3	24
1/13.4 ~ 1/25	20.5	2	58.8	0.6	27
1/49.3 ~ 1/125	25.5	3	58.8	0.6	30
1/181 ~ 1/625	30.5	4	58.8	0.6	33

# TG-201

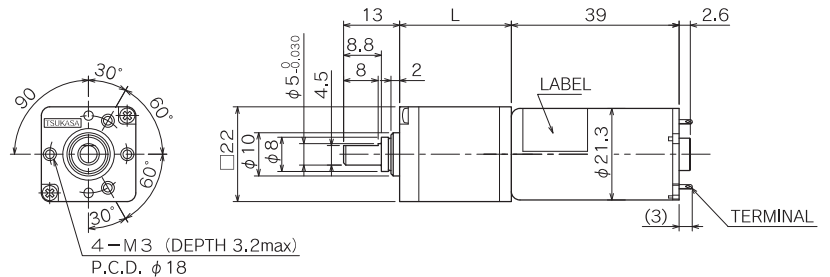
(1.1 ~ 2.0W)  $\phi$ 21.3, HIGH POWER, COMPACT DESIGN, SLIM TYPE.

## APPLICATION

ATM / MONEY COUNTING MACHINE / CARD READER / PRINTER / BLINDS / SECURITY CAMERA / CASSETTE LOADING etc.

# EU

TG-201A  
TG-201B



## Allowable torque-speed characteristics

EU

MODEL	GEAR RATIO	EU									
		1/12.1	1/17.6	1/20.6	1/25.5	1/42.1	1/61.2	1/71.7	1/88.7	1/104	1/129
TG-201A-EU (24V)	SPEED (r/min)	358	246	205	165	101	69.7	59.3	47.8	41.9	34.8
	TORQUE (mN·m)	19.6	29.4	39.2	49	68.6	98	117.6	147	147	147
	TORQUE (kgf·cm)	0.2	0.3	0.4	0.5	0.7	1	1.2	1.5	1.5	1.5
TG-201B-EU (24V)	SPEED (r/min)	541	359	313	246	151	103	87.5	72.7	63.2	52
	TORQUE (mN·m)	19.6	39.2	39.2	68.8	78.4	117.6	147	147	147	147
	TORQUE (kgf·cm)	0.2	0.4	0.4	0.6	0.8	1.2	1.5	1.5	1.5	1.5

EU

GEAR RATIO	L (mm)	STAGE	TORQUE		WEIGHT (g)
			(mN·m)	(kgf·cm)	
1/12.1 ~ 1/25.5	21	2	98	1	34
1/42.1 ~ 1/129	26	3	147	1.5	36