

FUJI
Engineering

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ENGINEERING
THAILAND
Elevator Products

2024

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FEN

Integrated solution
for elevators
up to 4 m/sec



Application Features

- ◆ EN81-20 Safety Certified
- ◆ Supports PM gearless and asynchronous geared traction Machines
- ◆ Smooth ride performance
- ◆ "Direct To Floor" technology
- ◆ Rapid commissioning step through sequence
- ◆ Anti-rollback without any external load cell (gearless machines)
- ◆ Pre-torque function (analog signal from load cell for geared machines)
- ◆ Flexible programmable I/O's
- ◆ Static auto tuning for asynchronous and synchronous machines (without brake opening)

Feature Highlights

- ◆ Standard: 48 floors, full collective (full serial connection)
- ◆ Duplex onboard group control (CANbus serial communication)
- ◆ Automatic door control mode
- ◆ electable fireman operation
- ◆ Supports 1 ph. 220 Vac UPS (quasi & sine wave) for rescue operation with intelligent light load direction search
- ◆ Comprehensive trip diagnostics

FES

AS380S Series Elevator Serial Integrated Controller



Main Features

- ◆ Design base on EN81-20 and comply with CE.
- ◆ UCMP , Self-monitoring on braking force periodically.
- ◆ Door lock bypass device for bypassing hall or car door lock.
- ◆ Monitoring of door lock circuit, to prevent the car door or hall door unexpectedly shorted
- ◆ Protection for second brake added to ensure safer and reliable operation.
- ◆ Pit inspection controlled by communication for easier inspection and maintenance.

Technical Indicators

- ◆ Power supply: 3 phase , AC380~415V , 50/60Hz
- ◆ Rated power : 5.5 - 22kW
- ◆ Rated speed : $\leq 2.5\text{m/s}$
- ◆ Motor type : Synchronous/Asynchronous
- ◆ Motor brake : DC110V , $\leq 3\text{A}$
- ◆ Illumination : AC220V
- ◆ Standard : EN81-20
- ◆ Environment : -10°C - 45°C
- ◆ Cabinet material : Galvanized sheet
- ◆ Control method : Single / Duplex / Group control
- ◆ Control cabinet dimension(mm) : 1000*580*300
- ◆ Brake resistor cabinet dimension(mm) : 420*255*117~420*255*255
- ◆ Installation : Ground mounted

Order code

FEN 5.5 V01 4 - T
(1) (2) (3) (4) (5)

	Model
(1)	FEN: NICE3000 Controller FES: AS380s Controller

	Power (kw)
(2)	5.5 7.5 11 15 18.5 22

	Machine Room Type
(3)	V01: Machine Room V02: Machine Room Less

	Voltage input
(4)	2: Single - phase 220V 4: Three - phase 380V

	Origin / Manual
(5)	T: Thailand / English

FJD1-B

PM Traction Machine



Features

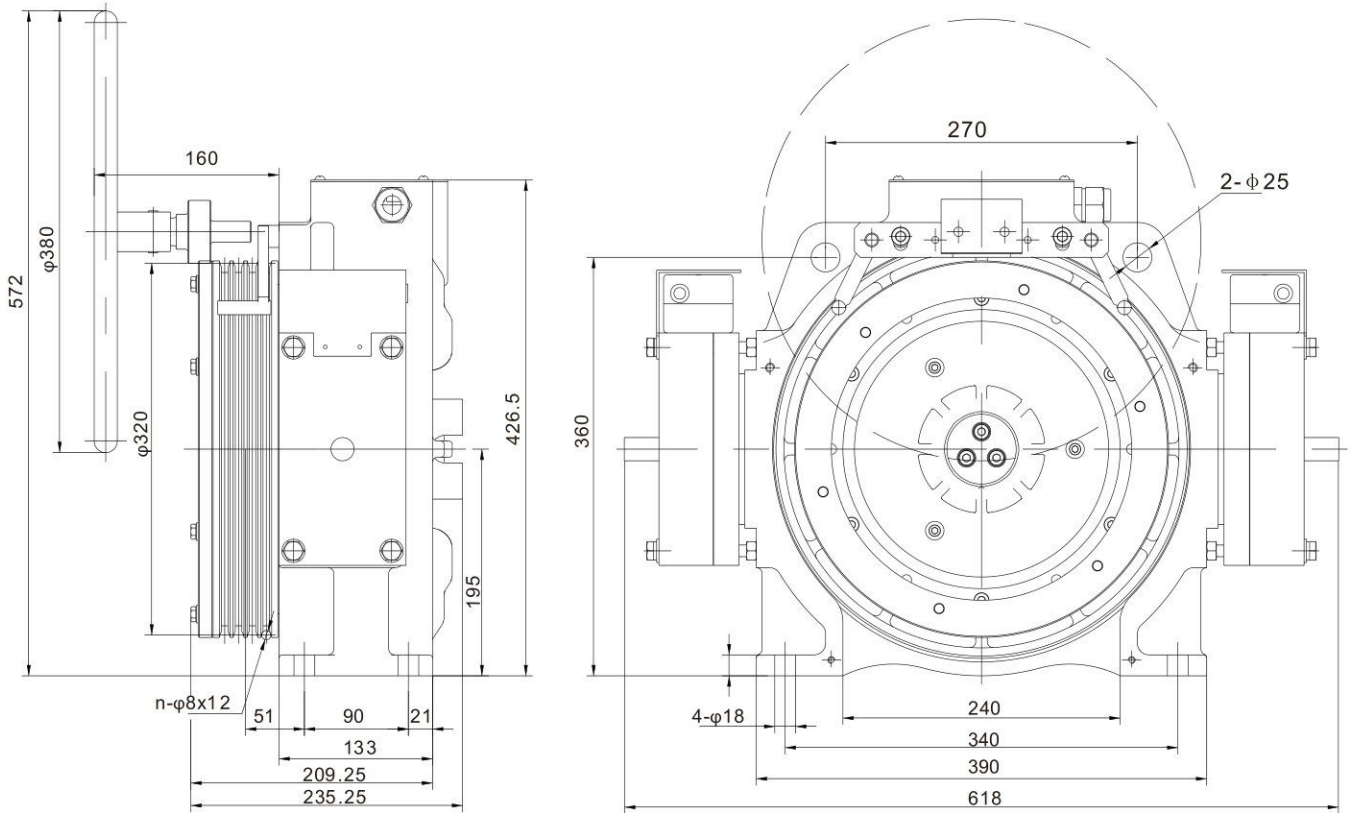
- ◆ Short axial length, suitable for machine roomless elevator application
- ◆ High efficiency with high torque density design
- ◆ Small size simple structure with high utilization of materials
- ◆ Machine low speed operation smooth, with low noise and small vibration
- ◆ Use block type ampless brake with high reliability

Traction Machine Parameter

- ◆ Voltage: AC380V
- ◆ Roping: 2:1
- ◆ Wrap: Single
- ◆ Capacity: 450kg ~ 5000kg
- ◆ Protection : IP41
- ◆ Insulation: F
- ◆ Traction machine pole: 20-30
- ◆ Stars per hour: 240
- ◆ Duty: S5-40%

FJD1-B450 SERIES (ROPING 2:1)

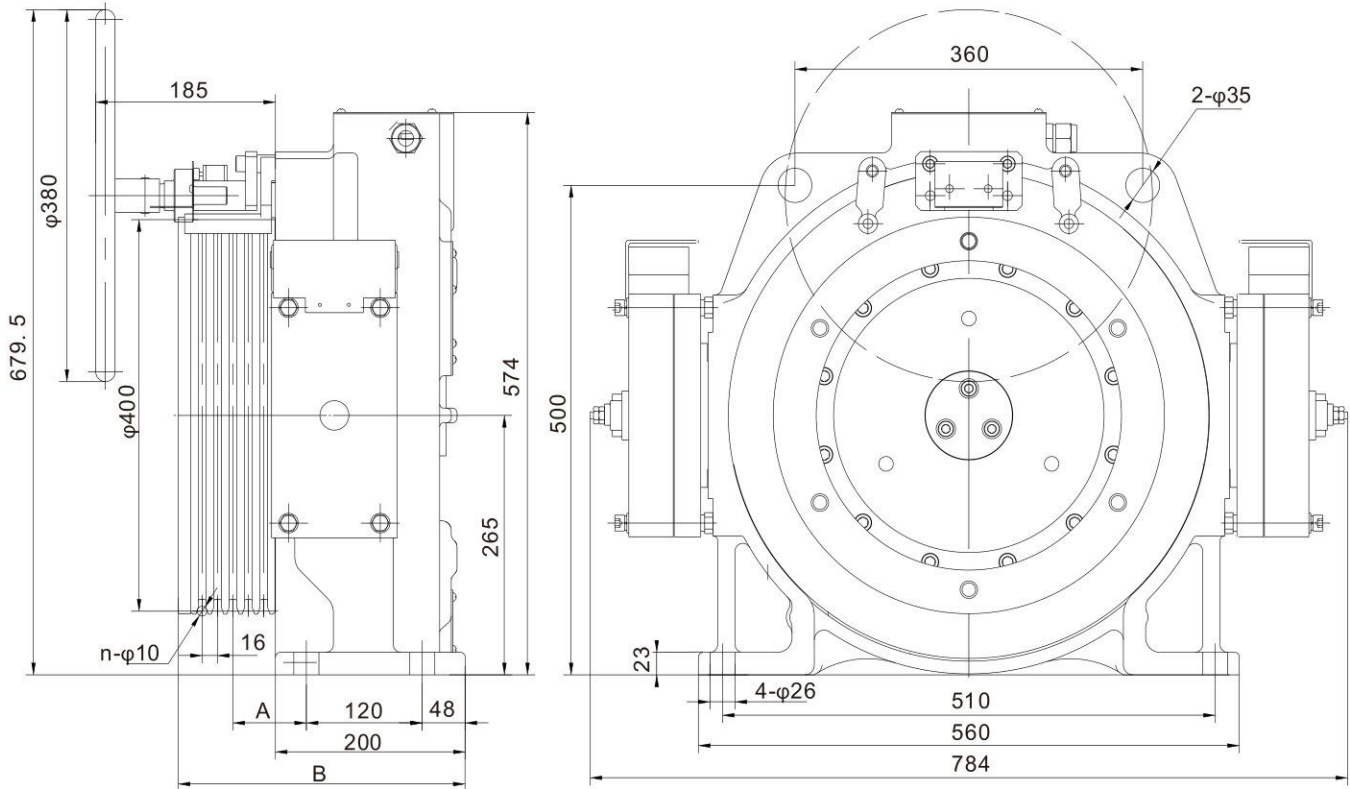
Traveling Height: $\leq 45m$



Model	Capacity (kg)	Speed (m/s)	Power (kW)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Sheave (mm)	Poles (2P)	Torque (N.m)	Ropes (mm)	Groove	Cut Angle	Groove Angle	Shaft Load (kg)	Weight (kg)
FJD1-B	450	1	3.3	9	119	19.9	320	20	270	4xφ 8x12	Undercut V	$\beta=105^\circ$	$\gamma=40^\circ$	2000	130
		1.5	4.5	13	179	29.8	320	20	240						
		1.6	4.8	13	191	31.8	320	20	240						
		1.75	5.2	13	209	34.8	320	20	240						

FJD1-B630/1000 SERIES (ROPING 2:1)

Traveling Height: $\leq 90\text{m}$

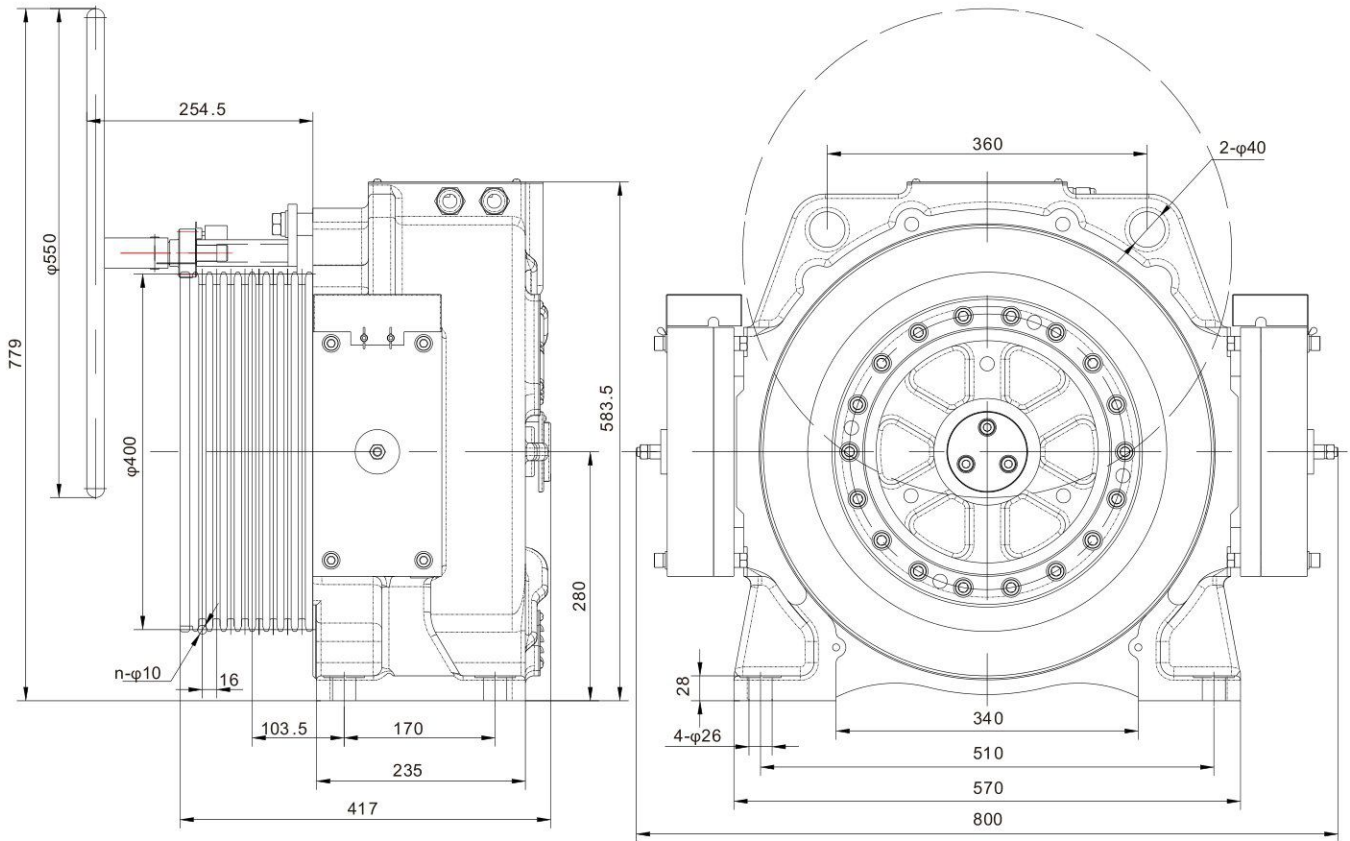


When $n=4$ or 5 , $A=76$, $B=300.5$

Model	Capacity (kg)	Speed (m/s)	Power (kW)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Sheave (mm)	Poles (2P)	Torque (N.m)	Ropes (mm)	Groove	Cut Angle	Groove Angle	Shaft Load (kg)	Weight (kg)
FJD1-B	630	1	4.2	10	95	23.8	400	30	420	4xφ 10x16	Undercut V	β=105°	γ=40°	3500	270
		1.5	6.3	17	143	35.8	400	30	420						
		1.6	6.7	17	153	38.3	400	30	420						
		1.75	7.3	17	167	41.8	400	30	420						
	800	1	5.3	12	95	23.8	400	30	532	5xφ 10x16					
		1.5	8	21	143	35.8	400	30	532						
		1.6	8.5	21	153	38.3	400	30	532						
		1.75	9.3	21	167	41.8	400	30	532						
	1000	1	6.6	15	95	23.8	400	30	665	5xφ 10x16					
		1.5	10	25	143	35.8	400	30	665						
		1.6	10.6	25	153	38.3	400	30	665						
		1.75	11.6	27	167	41.8	400	30	665						

FJD1-B1250/1350/1600 SERIES (ROPING 2:1)

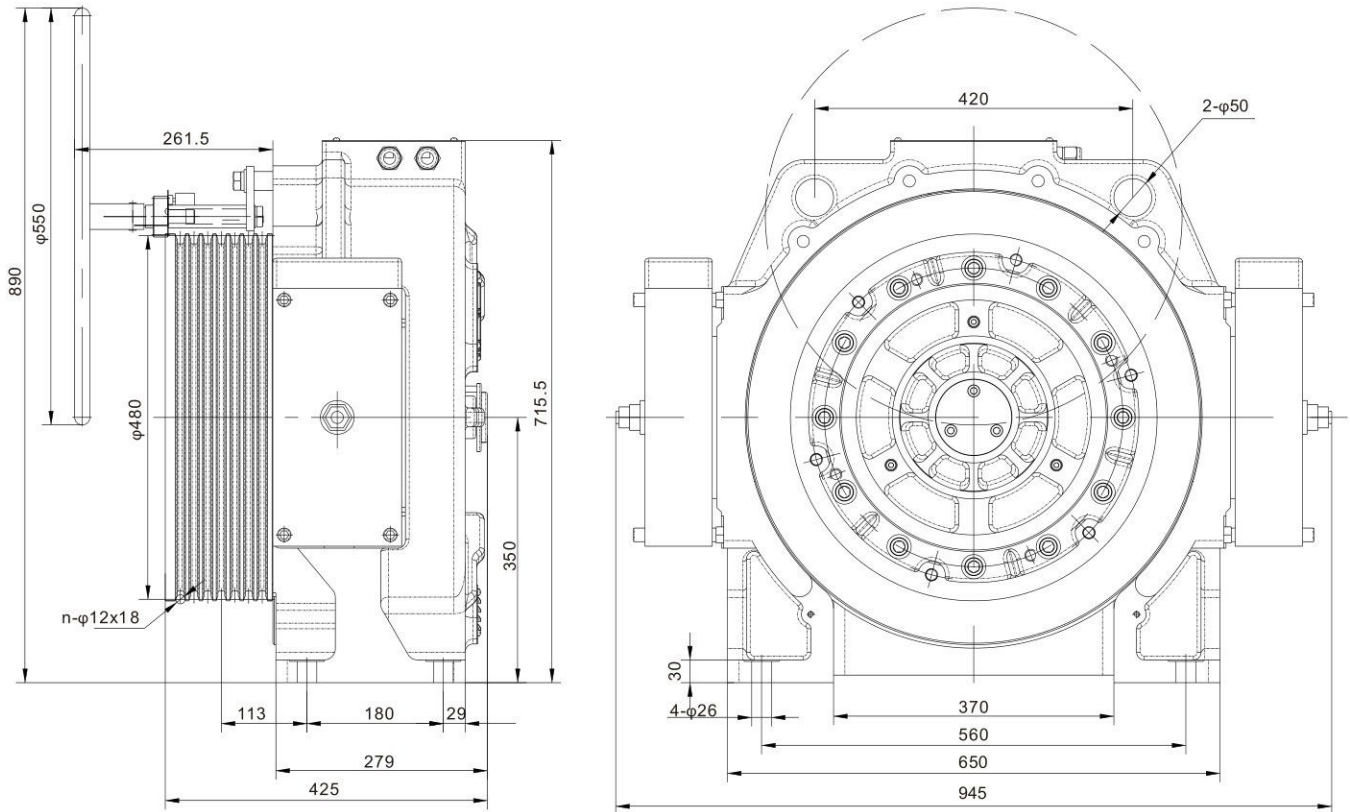
Traveling Height: $\leq 120m$



Model	Capacity (kg)	Speed (m/s)	Power (kW)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Sheave (mm)	Poles (2P)	Torque (N.m)	Ropes (mm)	Groove	Cut Angle	Groove Angle	Shaft Load (kg)	Weight (kg)
FJD1-B	1250	1.0	8.7	20	95	23.8	400	30	866	6xφ 10x16	Undercut V	β=105°	γ=40°	5500	430
		1.5	13.0	35	143	35.8	400	30	866						
		1.6	13.8	35	153	38.3	400	30	866						
		1.75	15.1	35	167	41.8	400	30	866						
		2.0	17.3	40	191	47.8	400	30	866						
		2.5	21.6	50	239	59.8	400	30	866						
	1350	1.0	9.3	22	95	23.8	400	30	935	8xφ 10x16					
		1.5	14.0	38	143	35.8	400	30	935						
		1.6	15.0	38	153	38.3	400	30	935						
		1.75	16.4	38	167	41.8	400	30	935						
		2.0	18.7	43	191	47.8	400	30	935						
		2.5	23.4	54	239	59.8	400	30	935						
	1600	1.0	11.1	26	95	23.8	400	30	1108						
		1.5	16.6	45	143	35.8	400	30	1108						
		1.6	17.7	45	153	38.3	400	30	1108						
		1.75	19.4	45	167	41.8	400	30	1108						
		2.0	22.2	51	191	47.8	400	30	1108						
		2.5	27.7	64	239	59.8	400	30	1108						

FJD1-B2000/2500 SERIES (ROPING 2:1)

Traveling Height: ≤90m



Model	Capacity (kg)	Speed (m/s)	Power (kW)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Sheave (mm)	Poles (2P)	Torque (N.m)	Ropes (mm)	Groove	Cut Angle	Groove Angle	Shaft Load (kg)	Weight (kg)
FJD1-B	2000	1.0	13.1	32	80	26.7	480	40	1570	6xφ 10x16	Undercut V	β=105°	γ=40°	7000	660
		1.5	19.6	50	119	39.7	480	40	1570						
		1.6	20.9	50	127	42.3	480	40	1570						
		1.75	22.9	50	139	46.3	480	40	1570						
		2.0	26.2	62	159	53.0	480	40	1570						
		2.5	32.7	75	199	66.3	480	40	1570						
	2500	1.0	15.9	39	80	26.7	480	40	1570	7xφ 10x16					
		1.5	23.8	61	119	39.7	480	40	1570						
		1.6	25.4	61	127	42.3	480	40	1570						
		1.75	27.8	61	139	46.3	480	40	1570						
		2.0	31.7	78	159	53.0	480	40	1570						
		2.5	39.7	98	199	66.3	480	40	1570						



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Thank you
for watching