## **TECHNICAL DATA**

## **Technical references for FUJI terminal blocks**

1. Range of applicaton	This data applie	es to the	e indust	rial tern	ninal blo	ocks tha	at are u	sed fo	cable r	uns of 6	600 V	AC (frequ	lency	: 50 or	60 Hz)	max.	or 600	VDC max.
2. Applicable standard	JIS C 2811-19	95 Indu	istrial T	ermina	Brack	ets												
3. Definitions of terms	Unit:     End plate:     Metal termina     Cover:     Marking strip     Rail:     End clamp:	ıl:	— An — A c — A c — A s — A s — A s	insulat insulat onduct orotectiv strip on supporti astenin	ed sup ion sup or that /e cove which t ing rail g hard\	port for port ac is one that is ermina that is ware th	a meta djacent of the c s used I numb used to at is us	al term to eac ompoi for dua ers an eassei ed to a	inal that th end o nents of st-proof d the lik mble ter secure t	t is one f the ur a term and pro a are n minal b he asse	of the nit. inal. otectio narke locks emble	e compo on of a li d. d termir	nents ve pa	s of a te urt. ock on	erminal a rail.	block	ς.	
4. Standard conditions for use	The standard of • Ambient ten • Relative hun • Altitude: • Operating ten • Storing tem	onditio nperatu nidity: empera	ns for ire: -{ 4: 2; ture: -2; e: -4	use are 5 to 40° 5 to 85° ,000 m 25 to 50 40 to 85	e listed C (with % max. 0°C 5°C	below.	Use te ezing)	ermina	blocks	under 1	hese	conditio	ns ur	iless o	therwis	e spe	cified.	
5. Ratings	The rated insu The rated appl Twisted wire mm <sup>2</sup> Single wire mm	ation v icable e 0.5 0.5	oltage i electric 0.75 0.8	s 250 \ wires a 1.25 1	/ or 600 re show 2 1.2	0 V AC wn in th 3.5 1.6	or DC. table 5.5 2	belov 8	14	22	38	60	10	0 15	0 20	0 2	250	325
6. Performance	The basic perfected of the second sec	ormanc confor increas istance ncy wit	e of ter rm to JI se: :: :hstand oltage:	minal b S C 28 voltage	llocks s 11) e:	hall me The te The ir 2,000 minute The fo	eet the empera isulatio V for 1 e at rational billowing 3 times	followi ture in n resis minut ed insi g refere	ng requ crease stance o e at rate ulation b ence vol	iremen of a cor f each oreakdo Itage sh	ts. nducti part s ation wn vo nall be	ve part : hall be 2 breakdo ltage of applied	shall I 20 M 9 wn v 600 I in th	be 45° Ω min. oltage V shall e stan	C max. of 250 be sat dard wa	V or 2 isfied avefor	2,500 <sup>v</sup> rm (1.2	/ for 1 2 / 50 μs)
	Short-time withstand current test:					Rated insulation voltage         Referent for rate withstar           250         4,           600         6,           Test current of 120 A per 1 second			nce vali d implu nd volta 000 000 mm² o	ge S	Test vo           Sea level         20           4,900         4,           7,400         7,           e rated applica         20		ltage a 10m 800 200 ble elec	nd appl 500m 4,700 7,000	licable 1, 4 6 e sha	e altitu 000m ,400 ,700	de 2,000m 4,000 6,000 ent for 1	
	Heat cycle te	st:				Test of then t Rated applical electric to Test of Turning (	current : he temp d Tuisted wire Solid v urrent ON or OFF minimun	shall b peratu vire mm <sup>4</sup> ire mm A duration n)	e sent in re increa 0.5 0.8 6 11	ntermitt ase sha 0.75 1. 1 1 25 3	tently all be 25 2 .2 1.6 10 43 4	125 time measure 3.5 2 5.5 5.5 5.5 5.5 5.5 5.5 5.5	es un ed. 8 98	der the	e followi 38 60 255 34 60	100 00 000 000 000 000 000 000 000 000	150 20 625 74	ns and 0 250 325 0 880 1,050 90
	Strength test:					For tig termin to 15	phtening nal scre second nal diam minal sc	g strer w and s. Loo leter rew	ngth, use then ap sen the mm 2.	e a torq ply the termina 5 3	ue sc tighte al scre 3.5	rewdrive ening to ew. 4	er or t que i 5	he like ndicate	to grad ed in the 8	dually e folic	tighte owing	n a able for 5

Remarks: The figures in parentheses indicate torque values as used for tightening without a screwdriver.

(6.0) (10.0) (14.0) (25.0)

 
 Tightening torque
 N-m
 0.4
 0.5
 0.8
 1.2
 2.0
 2.5 (3.0)

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· renoite streight test.	in two directions, the opposite direction of inserting an electric wire and the structurally least rigid direction.											
	Rated anonomic method with the method in the second											
	electric wire Solid wire mm 0.5 to 1.2 1.6 to 2											
	Tensile force         N         50         100         150         200         250         300 (351)         350 (427)         350 (578)											
Vibration resistance test:	Remarks: The figures in parentheses indicate values as used when tensite force is applied in the opposite direction of inserting an One of the combinations shown in the following table for a frequency range and double amplitude shall be used for the sweep vibration endurance test specified in JIC C0911.											
	Frequency range (Hz) Double amplitude (mm)											
	0.75 2 hours each in 3 axial directions,											
	10 to 55 1.0 vertical, horizontal, and											
	1.5											
	following table shall be given each 5 times for a total of 30 times in 6 directions, upward, downward, leftward, rightward, frontward, and rearward.											
	Maximum acceleration (m/s-) Duration (mm) Speed changes (m/s)											
Cold and heat-resistant tests:	A terminal block shall be maintained for 2 hours in a constant temperature bath of -25±3°C, allowed to stand for 1 hour at room temperature, maintained for 2 hours in a constant temperature bath of 70±3°C, and then allowed to stand at room temperature for 1 hour. Subsequently, the insulation resistance and power-frequency withstand voltage tests shall be conducted.											
	Ordinary temperature 25±3°C											
Humidity resistance test:	A terminal block shall be maintained for 96 bours in a constant temperature bath controlled at											

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A terminal block shall be maintained for 96 hours in a constant temperature bath controlled a temperature of 40±2°C and relative humidity of 90% to 95% and then taken out to a room at normal temperature. Within 5 minutes, the insulation resistance and power-frequency withstand voltage tests shall be conducted.

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