

Bf 109E-3 "Emil" (Late)

A/C Type: Short Range Day Fighter
 Engine(s): One Daimler-Benz DB 601Aa
 Eng. Pwr: 990-1175 HP, Liquid Cooled
 A/C Crew: Pilot

Max Speed: 354 MPH at 16,400 Feet
 Max Ceiling: 34,500 / 28,200 / 20,300 Feet

Defense Factor: 5 Size Modifier: + 0
 Damage Factor: 7 / 10 Endurance: 75

Cockpit View: Poor Blind Area: Rear

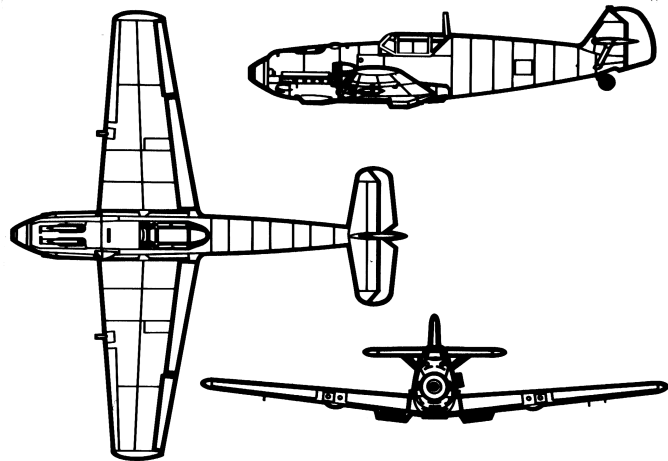
Protection: Cockpit +0 Fuel +0 Engine +0

Climb Decel / Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 550 / 2 - 5

Wpn. Stations	Weight	Allowed Loads
1 (E-3/B)	550	Bombs

Country: Germany

Service Entry Date: January 1940



Class: F

Victory Points: 4 - 8

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT (3)	Min. HT (4)	Min. BT (5)	Min. ET (6)	Altitude Band	Levels	Average Rate Of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37 - 42	EH	—	—	—	—	—	—	—	EH	37 - 42	—
31 - 36	VH	3.0	6.5	10.0	4.5	6.5	7.5	—	VH	31 - 36	400
25 - 30	HI	3.0	6.5	10.5	4.0	5.5	7.0	8.0	HI	25 - 30	800
19 - 24	MH	2.5	7.0	10.5	3.5	5.0	6.0	7.0	MH	19 - 24	1,600
13 - 18	ML	2.5	7.0	11.0	3.5	4.5	5.5	6.5	ML	13 - 18	2,500
7 - 12	LO	2.0	6.5	10.5	3.0	4.5	5.0	6.0	LO	7 - 12	3,000
1 - 6	VL	2.0	6.0	9.5	2.5	4.0	4.5	5.5	VL	1 - 6	3,300

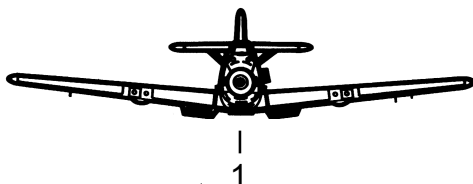
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One 7.9mm MG-17	30	4
N2	One 7.9mm MG-17	30	4
W1-L	One 20mm MG-FF	3.5	2
W2-R	One 20mm MG-FF	3.5	2

GUN ATTACK FACTORS

Range	N1	N2	W1	W2	(Total)
0	6	6	11	11	34
1	4	4	9	9	26
2	3	3	6	6	18
3	2	2	4	4	12
4	1	1	3	3	8
5	1	1	2	2	6
6	—	—	—	—	—
7	—	—	—	—	—

WEAPON STATIONS



POWER VERSUS SPEED CHART

Levels	Band	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0 +	Band
43+	UH	—	—	—	—	UH
37 - 42	EH	—	—	—	—	EH
31 - 36	VH	1 / -	1 / -	—	—	VH
25 - 30	HI	3 / -	1 / -	—	—	HI
19 - 24	MH	5 / 6	2 / 3	—	—	MH
13 - 18	ML	7 / 8	4 / 5	—	—	ML
7 - 12	LO	7 / 8	4 / 5	—	—	LO
1 - 6	VL	7 / 8	4 / 5	—	—	VL
Banking FPs:		2	3	5	7	
Side Slip FPs:		3	5	6	8	

NOTES & VARIANTS (late E-3)

Bf 109E-3: Slatted wings. Difficult to land (+10 LH to landing attrition rolls). No weapon stations. Armor added starting June 1940 (D10 ≤ 3; -3 per month past June). If so, Cockpit & Fuel protection = +1. Bullet proof front canopy added Aug. 1940 (D10 ≤ 4 if armored; -2 per month past Aug). If so, Cockpit protection = +2.

Bf 109E-3/B: August 1940 "Jabo" conversion. Station 1 added for one bomb (up to 550 lbs.) or ER-4 adapter with four 110 lb. bombs. When bombs carried, N ammo = 8, W guns not loaded. If load > 250 lbs., endurance reduced to 50 (take off weight limits). Cockpit prot. = +2, Fuel prot. = +1. All else as E-3.

Notes: This ADC is for 1940 built E-3s with DB 601Aa engine having better power & supercharging than earlier DB 601A. E-3 produced in parallel with E-1 until July 1940 when production shifted to E-4. Most subsequently converted to E-4 or E-7 standard during major overhaul. Few E-3s left in service after early 1941.